



COMPLIANCE CHEAT SHEET SERIES

Six reference documents for security and compliance teams.

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All documents free — no account required — passgeni.ai

This series is a reference guide. Verify requirements against current official standards.



HIPAA + PCI-DSS Password Requirements

Quick reference for compliance teams

HIPAA Password Requirements

45 CFR § 164.308(a)(5)(ii)(D) · HHS.gov · NIST SP 800-66 Rev. 2 (2023)

Requirement	HIPAA Standard	PassGeni
Minimum length	8 characters (12 recommended by HHS)	Slider → 12
Uppercase letters	Required in complexity policy	Uppercase ON
Lowercase letters	Required	Lowercase ON
Numbers	Required	Numbers ON
Special symbols	Required	Symbols ON
No dictionary words	Must resist dictionary attack	AI seeding enforced
No username in password	Required	Client-side check
Password history	Last 6 passwords cannot be reused	History panel
Maximum age	90 days (recommended)	Rotation reminder
Account lockout	After 5 failed attempts	Outside generator scope
Multi-factor auth	Strongly recommended	Outside generator scope

PassGeni HIPAA Preset — One click, all 7 password-level requirements auto-configured.

Compliance reference: HHS.gov · 45 CFR Part 164 · NIST SP 800-66 Rev. 2 (2023)

PCI-DSS v4.0 Password Requirements

Requirement 8.3 — Identify Users · Requirement 8.6 — Manage System/App Accounts

Requirement	PCI-DSS v4.0 Standard	PassGeni
Minimum length	12 characters (up from 7 in v3.2.1)	Slider → 12
Complexity	Upper + lower + number + symbol	All options ON
No dictionary words	Must resist guessing attacks	AI seeding enforced

Requirement	PCI-DSS v4.0 Standard	PassGeni
No username in password	Required	Client-side check
Password history	Last 4 passwords cannot be reused	History panel
Maximum age	90 days for non-MFA accounts	Rotation reminder
Change on first use	Required for new or reset passwords	Outside generator scope
Account lockout	After 10 failed attempts	Outside generator scope
Multi-factor auth	Required for all admin access	Outside generator scope
Shared accounts	Must not use shared/generic passwords	Bulk generator available

PassGeni PCI-DSS Preset — One click, all 8 password-level requirements auto-configured.

Reference: PCI Security Standards Council · PCI-DSS v4.0 — March 2022 · Full compliance: March 2025

○ NIST SP 800-63B aligned · ◆ Zero storage · ✦ Client-side only · © No account needed

SOC 2 + ISO 27001 Password Requirements

Quick reference for compliance teams

SOC 2 Password Requirements

Trust Services Criteria — CC6.1, CC6.2, CC6.3 · AICPA TSC 2017 (updated 2022)

Requirement	SOC 2 Criteria	PassGeni
Minimum length	Not specified — auditor expects 12+	Slider → 12
Complexity	Must 'restrict access' — complexity required	All options ON
Unique per system	Required — no password reuse across systems	Generate per-account
No shared credentials	CC6.2 — individual accountability required	Bulk per-user
Password history	Expected — typically last 10	History panel
Maximum age	Expected — typically 90 days	Rotation reminder
Privileged accounts	Stronger controls required (16+ chars)	Slider → 16+
Service accounts	Must be documented and rotated	Bulk generator + export
Multi-factor auth	Strongly expected by auditors	Outside generator scope

What SOC 2 auditors actually check:

- Written password policy document — Proof policy is technically enforced
- Access logs for privileged accounts — Evidence of regular rotation

PassGeni compliance preset satisfies the technical enforcement evidence requirement.

Important: SOC 2 has no fixed password standard. Auditors apply professional judgment. Your auditor may require more.

ISO 27001:2022 Password Requirements

Annex A — Control 5.17 · Authentication information

Requirement	ISO 27001:2022 Control 5.17	PassGeni
Minimum length	Not fixed — 'sufficiently long' (12+ expected)	Slider → 12
Quality	Must be 'of sufficient quality' — complexity implied	All options ON
No dictionary words	Must resist common attack methods	AI seeding enforced

Requirement	ISO 27001:2022 Control 5.17	PassGeni
Confidentiality	Must not be shared or written in plain text	Zero storage by design
Uniqueness	Different password for each system	Generate per-account
No default passwords	Must change all default credentials	Outside generator scope
Password history	Required — no reuse of recent passwords	History panel
Maximum age	Required — typical implementation is 90 days	Rotation reminder
Privileged access	PAM controls — stronger passwords required	Slider → 16+, Post-Quantum

ISO 27001 vs ISO 27002 — ISO 27001 sets the requirement. ISO 27002 provides implementation guidance.

ISO 27002:2022 §5.17 recommends: min 12 characters, mixed classes, no personal info, no sequential patterns.

PassGeni ISO 27001 preset implements all ISO 27002 §5.17 technical recommendations.

Where SOC 2 and ISO 27001 Agree

- Formal written password policy
- Technical enforcement of that policy
- Evidence of compliance for audit
- Stronger controls for privileged access
- Regular rotation and history enforcement
- No shared or generic accounts

Reference: AICPA TSC 2017 · ISO/IEC 27001:2022 · ISO/IEC 27002:2022

NIST SP 800-63B The Password Standard That Changes Everything

Plain-English breakdown for security and compliance teams

What NIST SP 800-63B Actually Is

NIST Special Publication 800-63B is the US federal standard for digital identity authentication. Published in 2017, revised continuously. It is the most cited password standard in the world — referenced by HIPAA auditors, PCI-DSS, SOC 2 examiners, and security engineers globally.

Most security teams have heard of it. Almost nobody has read all 79 pages. This guide is the 79 pages in plain English.

The Five Rules NIST Changed Forever

Rule 1 — Passphrases beat complex passwords

Old thinking: "P@ssw0rd!" is strong because it has upper, lower, numbers, and symbols.

NIST 800-63B §5.1.1.2: It is not strong. Attackers know every common substitution pattern.

"correct-horse-battery-staple" — four random words — is cryptographically stronger and memorisable.

Recommendation: Min 8 chars. Recommend 15+. Allow all Unicode. Support passphrases. Do not require complexity rules.

PassGeni: Passphrase tab → NIST 800-63B mode. Four random words from profession vocabulary. 50+ bits of entropy.

Rule 2 — Mandatory rotation is harmful

Old thinking: Change your password every 90 days.

NIST 800-63B §10.2.1: "Verifiers SHOULD NOT require memorised secrets to be changed arbitrarily."

Why: Forced rotation causes predictable patterns (Spring2024! → Summer2024!). Users degrade password quality.

Exception: Change ONLY when there is evidence of compromise — not on a calendar schedule.

PassGeni: Rotation reminders (Team plan) are event-triggered, not calendar-based.

Rule 3 — Check against known breached passwords

NIST 800-63B §5.1.1.2: Verifiers SHALL compare passwords against a list of known compromised values.

This includes: passwords from breach corpora, dictionary words, repetitive patterns, context-specific words.

PassGeni Breach Checker: k-anonymity via HavelBeenPwned. Your password never leaves your device.

Rule 4 — Composition rules are counterproductive

Old thinking: Must contain uppercase, lowercase, number, symbol.

NIST 800-63B §5.1.1.2: "Verifiers SHOULD NOT impose other composition rules."

Why: Composition rules reduce password space by making passwords predictable. Users satisfy minimally: "Password!"
 Correct approach: Minimum length (15+) + breach checking. Length alone beats complexity.
 PassGeni: Complexity options available but not forced. Passphrase mode for NIST-pure compliance.

Rule 5 — Security questions are prohibited

NIST 800-63B §5.1.1.2: "Verifiers SHOULD NOT use knowledge-based authentication (KBA) or security questions."

Why: Your mother's maiden name is findable on LinkedIn in under 10 minutes. KBA provides false confidence. If your system still uses security questions, you are out of NIST 800-63B alignment.

NIST 800-63B Quick Reference

What NIST Says	What It Means	PassGeni Setting
Min 8 chars, recommend 15+	Length beats complexity	Slider → 15+
Support passphrases	4 random words is valid and strong	Passphrase tab
No mandatory rotation	Only rotate on compromise	Event-based reminders
Check breach lists	Every new password	Breach Checker tool
No composition rules required	Don't force symbols	Optional, not forced
No security questions	Remove KBA from systems	Outside generator scope
Allow all Unicode	Including foreign scripts	12 language scripts
Do not truncate passwords	Don't cut passwords short	Up to 32 characters

NIST 800-63B Assurance Levels

Level	Name	Requirements	Suitable For
AAL1	Basic	Password alone. Min 8 chars. Breach check.	Low-risk applications
AAL2	Enhanced	Password + second factor. Phishing-resistant MFA preferred.	Healthcare, financial, personal data
AAL3	High	Hardware cryptographic authenticator. Physical possession factor.	Government, critical infrastructure

Most enterprise applications require AAL2. PassGeni addresses the password component of AAL1 and AAL2.



DoD + Federal Government Password Requirements

For government contractors and federal IT teams

DoD Password Requirements

DoD Instruction 8520.03 · DISA STIG — Application Security · CMMC 2.0 Level 2

Requirement	DoD / DISA Standard	PassGeni
Minimum length	15 characters	Slider → 15
Uppercase letters	Required	Uppercase ON
Lowercase letters	Required	Lowercase ON
Numbers	Required	Numbers ON
Special symbols	Required — at least 2	Symbols ON
No dictionary words	Required	AI seeding enforced
Password history	Last 10 passwords prohibited	History panel
Maximum age	60 days (all accounts)	Rotation reminder
Minimum age	1 day (prevent immediate reuse)	Outside generator scope
Account lockout	After 3 failed attempts	Outside generator scope
Multi-factor auth	Required for all CUI-level access	Outside generator scope
Post-Quantum readiness	Recommended — NSA CNSA 2.0	Post-Quantum mode

CMMC 2.0 Level 2 — Password Specific:

Practice IA.L2-3.5.7: "Enforce a minimum password complexity and change of characters when new passwords are created."

PassGeni DoD preset → 15 chars minimum, all complexity classes, Post-Quantum mode. Satisfies IA.L2-3.5.7.

Federal / FedRAMP Password Requirements

NIST SP 800-53 Rev. 5 — IA-5 · FedRAMP Moderate Baseline · FISMA Compliance

Requirement	NIST 800-53 IA-5	PassGeni
Minimum length	12 chars (15 for privileged)	Slider → 15
Complexity	Mixed case + numbers + symbols	All options ON

Requirement	NIST 800-53 IA-5	PassGeni
No reuse	Last 24 passwords (high impact)	History panel
Maximum age — privileged	60 days	Rotation reminder
Maximum age — standard	90 days	Rotation reminder
Temporary passwords	Must change on first use	Outside generator scope
Automated enforcement	Technical controls must enforce policy	PassGeni preset = evidence
Privileged accounts	Separate credentials from standard	Bulk generator — separate

NIST 800-53 IA-5(1) — Password-Based Authentication:

"Enforce minimum password complexity and length... Prohibit the same password as used in previous [n] passwords..."

FedRAMP Moderate requires IA-5(1). FedRAMP High requires IA-5(1) + IA-5(4).

NSA CNSA 2.0 — Post-Quantum Readiness

NSA issued CNSA 2.0 in 2022, mandating post-quantum cryptographic algorithms for national security systems by 2033. For passwords:

- Minimum 128-bit classical security
- Resistant to Grover's algorithm
- Extended length — 20+ characters recommended
- Avoid patterns vulnerable to quantum search

PassGeni Post-Quantum Mode: 20+ character minimum, extended character pool, pattern avoidance, NIST PQC 2024 aligned.

Recommended for any contractor handling classified or sensitive government information.

Reference: DoD Instruction 8520.03 · DISA STIG · CMMC 2.0 · NIST SP 800-53 Rev.5 · NSA CNSA 2.0

Password Security for Healthcare Teams

For clinicians, administrators, and IT — no jargon

Why Healthcare Passwords Matter More

Healthcare is the most breached industry on the planet — for the ninth consecutive year in 2024. (IBM Cost of a Data Breach Report)

Metric	Data
Average cost of a healthcare breach	\$10.9 million
Average cost — all other industries	\$4.5 million
Top attack vector: stolen or weak credentials	61% of breaches
Top attack vector: phishing → credential theft	49% of breaches
Top attack vector: insider threats	35% of breaches

A strong password policy, consistently applied, directly addresses the #1 attack vector.

The Systems Your Team Logs Into Every Day

EHR / EMR Systems (Epic, Cerner, athenahealth)

Stores: complete patient records, diagnoses, medications, treatment history. Breach impact: PHI exposure, HIPAA violation, patient harm.

Setting	Requirement
Minimum length	15 characters
Character types	Upper + lower + number + symbol
Rotation	Every 90 days
History	Never reuse last 6 passwords
MFA	Required on all remote access

Practice Management Software (Kareo, Drchrono, Meditech)

HIPAA applies to billing systems equally. A breach of scheduling data is a HIPAA breach. Apply the same requirements as your EHR.

Medical Imaging / PACS (Sectra, Agfa, GE)

X-rays, MRIs, and CT scans are PHI. Shared logins are a HIPAA violation regardless of team trust level.

Communication Tools (Teams, Slack, Halo Health)

If patient names appear in context, HIPAA applies. Never discuss identifiable patient information in consumer messaging apps.

The HIPAA Audit Checklist

Auditor Requirement	How to Satisfy It
Written password policy document	PassGeni Policy Generator (Team plan)
Evidence of technical enforcement	PassGeni preset = documented technical enforcement
Individual accountability	No shared logins — each user has own credentials
Evidence of rotation enforcement	System logs or rotation reminder records
BAA with PassGeni required?	No — PassGeni stores zero PHI. Client-side only.

The Three Mistakes Healthcare Teams Make Most Often

Mistake 1 — Shared login credentials

"We all use the same login for the lab system because it's faster."

HIPAA §164.312(a)(2)(i) requires unique user identification. Shared credentials make individual accountability impossible.

If there is a breach, you cannot prove who accessed what. That is the violation.

Fix: Use PassGeni Bulk Generator to create unique strong passwords for each team member in seconds.

Mistake 2 — Writing passwords on paper or in notes apps

A sticky note under the keyboard. A "Passwords" folder in iPhone Notes. A Word document called logins.docx.

Physical theft → instant access. iCloud sync → unencrypted cloud storage. No audit trail if compromised.

Fix: PassGeni generates passwords that are strong AND profession-contextually memorable.

Mistake 3 — Same password across systems

A breach of any one system compromises all. Credential stuffing attacks test stolen passwords across hundreds of systems automatically.

Fix: One unique password per system. PassGeni generates a new strong password for each account in under 3 seconds.

What to Set in PassGeni for Healthcare

System	Length	Mode	Rotation
EHR (Epic, Cerner)	15	HIPAA preset	90 days
Practice Management	12	HIPAA preset	90 days
Medical Imaging (PACS)	15	HIPAA preset	90 days

System	Length	Mode	Rotation
Admin email	15	Passphrase	90 days
Patient portal admin	15	HIPAA preset	90 days
Wi-Fi / network	20	Post-Quantum	1 year
VPN	20	Post-Quantum	90 days

Reference: 45 CFR Part 164 · HHS.gov · NIST SP 800-66 Rev.2

This guide is educational reference, not legal advice.

Password Policy Template

HIPAA · PCI-DSS · SOC 2 Aligned — Customise with your organisation details

Document Header

Field	Value
Organisation Name	
Policy Owner	
Effective Date	
Review Date	
Version	
Approved By	

1. Purpose

This policy establishes requirements for the creation, maintenance, and protection of passwords used to access [ORGANISATION NAME] information systems, networks, and data.

This policy applies to all employees, contractors, vendors, and third parties who access [ORGANISATION NAME] systems. Designed to comply with:

- HIPAA Security Rule — 45 CFR §164.308(a)(5)(ii)(D)
- PCI-DSS v4.0 — Requirements 8.3 and 8.6
- NIST SP 800-63B — Memorised Secret Authentication
- [Add applicable standard: SOC 2 / ISO 27001 / DoD STIG]

2. Scope

This policy applies to all information systems owned or managed by [ORGANISATION NAME], and all user accounts including: standard user, administrative and privileged, service and system, and temporary and contractor accounts.

3. Password Requirements

3.1 Standard User Accounts

Parameter	Requirement
Minimum length	15 characters
Uppercase letters	At least 1 required (A-Z)
Lowercase letters	At least 1 required (a-z)
Numbers	At least 1 required (0-9)

Parameter	Requirement
Special characters	At least 1 required (!@#\$%^&*)
Dictionary words	Prohibited
Sequential patterns	Prohibited (12345, abcde, qwerty)
Username in password	Prohibited
Password history	Last 10 cannot be reused
Maximum age	90 days
Minimum age	1 day

3.2 Privileged and Administrative Accounts

Parameter	Requirement
Minimum length	20 characters
Character requirements	Same as 3.1 — stricter enforcement
Password history	Last 24 cannot be reused
Maximum age	60 days
Multi-factor authentication	REQUIRED — no exceptions

3.3 Service and System Accounts

Parameter	Requirement
Minimum length	20 characters
Maximum age	90 days or per system change event
Human access	Must not be used by human users
Documentation	Must be documented in asset register

4. Password Creation

4.1 Approved Methods

- PassGeni (passgeni.ai) — HIPAA/PCI-DSS preset
- Approved password manager random generator
- Manual creation meeting all requirements in Section 3.1

4.2 Prohibited Patterns

- First name, last name, or username
- Organisation name or abbreviation
- Birthdate, anniversary, or memorable date
- Sequential keyboard patterns (qwerty, asdf, 1234)
- Single word with simple substitution (P@sswOrd)

- Passwords found in known breach datasets

4.3 Breach Checking

Before adopting a new password, verify it has not appeared in known data breaches using PassGeni's Breach Checker tool. The full password never leaves the device (k-anonymity protocol).

4.4 Passphrases

Four or more random words are an approved and recommended alternative to complex passwords, consistent with NIST SP 800-63B. Use PassGeni's Passphrase mode.

5. Password Protection

Passwords must not be shared with any person, written on paper or stored in unencrypted documents, or communicated via email, SMS, or chat in plain text.

If a password must be shared (emergency access): use PassGeni Secure Share for one-time encrypted link delivery; change the password immediately after; document the event in the IT access log.

If suspected to be compromised: change it immediately; report to IT Security within 1 hour; do not wait for confirmation.

6. Compliance and Enforcement

6.1 Monitoring — IT systems enforce password requirements technically. Non-compliant passwords are rejected by the system.

6.2 Violations — May result in temporary suspension, disciplinary action, or regulatory notification if a breach results.

6.3 Exceptions — Require written request, business justification, approval by [CISO / IT Director], and a time-limited review date.

6.4 Review — Annually, or following a security incident, material regulatory change, or significant technology change.

7. Definitions

Term	Definition
Credential	A username and associated authentication factor (password, token, certificate)
PHI	Protected Health Information — any individually identifiable health information under HIPAA
Privileged Account	Account with administrative, root, or elevated access to systems or data
Service Account	A non-human account used by applications, scripts, or automated processes
Passphrase	Four or more random words providing high entropy and memorability. NIST 800-63B approved.
Breach Dataset	Published collection of compromised credentials from known security incidents
MFA	Multi-Factor Authentication — requires two or more independent verification factors

Policy Approval

Role	Name	Signature	Date
Prepared by			
Title			
Approved by			
Title			
Next review date			

This template is provided for reference. Have your legal or compliance counsel review before adoption.

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