

## **Password Security Compliance**

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# PASSWORD SECURITY COMPLIANCE

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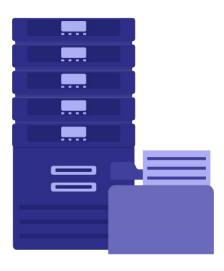
#### Overview

Passwords are a critical component of security. Passwords serve to protect user accounts; however, weak passwords may violate compliance standards, be reversed engineered back to plaintext and sold on the dark web, or result in a costly data breach if compromised. A periodic review of password rules is a vital component of your compliance and security strategies.

### Purpose

The purpose of this security brief is to inform organizations of key password requirements and initiate internal compliance conversations. Use this security brief as a tool to enforce or strengthen your existing password policy.





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While all applications should apply password constraints to discourage easy to guess passwords, many organizations are required to do so by law. It is necessary to have stringent password constraints in place in order to comply with industry regulations.

Compliance is about fostering a culture that values user data and integrity and that culture starts at the top. A CEO must begin by looking at governance: the policies, controls and rules that represent their organization. This at-a-glance overview outlines the strict requirements of industry specific password compliance and will help you initiate critical conversations with your engineering, security and governance teams.

According to **Verizon's 2017 Data Breach Investigations Report**, 81% of

hacking-related breaches leveraged either stolen and/or weak passwords. Financial, healthcare and public sector organizations accounted for over half of those breaches.

Password strength is an important security concern. With over **four billion credentials stolen** last year and **data breaches averaging \$3.62M** in direct costs per incident,

companies must be prepared for the security risks they face.













FDA (U.S. FOOd and Drug Administration)	
FDA regulates food, drugs, biologics, medical devices, electronic products (that give off radiation), cosmetics, veterinary products, and tobacco products.	At least 8, but no more than 32 characters  At least one uppercase letter  At least one lowercase letter  At least one special character  At least one number  Passwords must be changed every 90 days
HIPAA (Health Insurance Portability and Accountability Act)	
Any organization that deals with protected health information (PHI) must ensure HIPAA compliance.	At least 6, preferably 8, characters in length  Combination of uppercase and lowercase letters, mixed with numbers and symbols  Password should be changed every 45 to 90 days  Cannot be the same as any of the user's last 12 passwords
PCI DSS (Payment Card Industry Data Security Standard)	
Any organization that deals with payment card data must be PCI compliant – whether payment card processing is the company's primary function or not.	At least 7 characters  Have a mix of both letters and numbers  Passwords must be changed every 90 days  Cannot be the same as any of the user's last four passwords
SOC 2 (Service Organization Control)	
Established by AICPA, SOC 2 applies to all companies using the cloud to store customers' information.	At least 8 characters in length  Lower and uppercase letters  One number  One symbol

## NIST (National Institute for Standards and Technology)

NIST produces guidelines to help federal		Minimum of 8 characters
agencies meet the requirements of the		Allow a maximum length of at least 64
FISMA, however other organizations	_	characters
reference NIST for strong security		No more mandatory password changes
standards.		No special characters requirements

The NIST guidelines were published in June 2017. NIST sets the precedence and these standards often trickle down to other regulations, such as HIPAA and SOC. It is likely there will be a shift in favor of password length and user friendliness.

"Passwords that are too short yield to brute force attacks as well as to dictionary attacks using words and commonly chosen passwords."

NIST Digital Identity Guidelines

#### Conclusion

Password security is a vital part of compliance. Maintaining security and compliance allows organizations to protect user data and maintain customer trust.

Rules and regulations surrounding compliance certifications are constantly changing and meeting the specific standards can be difficult. Selecting the right technology partner, with built-in capabilities, can help companies strengthen password security and policy easily to keep customer information secure, meet compliance standards and keep business thriving.



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