

Texas Veterans Commission

Password Standard

I. Purpose

Poor password construction or management imposes risks to information resource systems of the Texas Veterans Commission (TVC). Standards for construction and management of passwords greatly reduce these risks. This document describes the acceptable standards for password construction and management.

II. Scope

The requirements in this standard apply to passwords for any information resource account of the TVC, to the users of any such accounts, and to system administrators and developers who manage or design systems that require passwords for authentication. The Information Security Officer (ISO) is responsible for enforcing this standard.

III. Standard

A. Password Construction

- a. Passwords must be a minimum of eight randomly selected characters.
- b. Words and phrases may supplement the eight randomly selected characters.
- c. For help with generating random characters either:
 - i. Visit <https://www.random.org/passwords/>
 1. Click the "Get Passwords" button.
 2. Pick the password that appeal to you or click the "Again!" button.
 3. Note: you may have to add certain characters to satisfy complexity requirements of some systems (e.g. ! # = @ | ? ~, etc.).
 - ii. Or, obtain a card of random character sequences from the ISO to form the basis for constructing a password.

B. Password Management

a. Storage

- i. Passwords are most secure when memorized. Please try to commit passwords to memory to achieve the highest security benefit. The card of random character sequences from the ISO maybe useful memory aid.
- ii. Passwords may be written down on paper documents provided the following guidelines are strictly adhered:
 1. Do not include the associated user name.
 2. Do not include the associated site, application or system.
 3. Keep the paper document with your personal valuables always, such your credit cards or cash, and nowhere else.
- iii. Approved password managers may be used.
 1. Contact the ISO for approval of your chosen password manager.
 2. Use of dis-approved password managers must be discontinued immediately and all passwords it contained must be changed.

Texas Veterans Commission Password Standard

- e. Default Passwords - System administrators shall not use default passwords for any account. Furthermore, system administrator accounts must be distinct from their individual accounts and with different passwords.

D. Requirements of Application Developers

- a. Require Secure Transmission - Application developers shall develop applications that require secure protocols for authentication approved by the Information Security Officer.
- b. Storing Passwords - Application developers shall not store passwords in applications or in associated files. If password storage cannot be avoided, the alternative solution must be approved by the Information Security Officer.
- c. Unique User Accounts and Passwords - Applications shall support unique user accounts and passwords distinct from individual user accounts are not required to share a password to use the application.
- d. Use Federated Identity Whenever Possible - Applications shall, whenever capable, use TVC's Azure Active Directory for authenticating TVC users instead of requiring another set of credentials. For external users, consider integrating with existing accounts, such as social media where appropriate.

IV. Compliance

Everyone is responsible for complying with the TVC Password Standard. Non-compliance will result in actions consistent with policies of the Information Security Program to include loss of access to agency information resources. Exceptions may be granted in cases where security risks are mitigated by alternative methods, or in cases where security risks are at a low, acceptable level and compliance with minimum security requirements would interfere with legitimate business needs. To request a security exception, contact the Information Security Officer.

V. Version History

1.0 March 1, 2018 – Adoption

VI. References

- NIST Special Publication 800-63B Digital Identity Guidelines
- NIST Special Publication 800-53 Security and Privacy Controls for Federal Information Systems and Organizations