

Digital Identity, Authentication Management, and Access Control

Purpose

The purpose of this policy is to establish a minimum expectation with respect to digital identity authentication methods, access controls, and password construction to protect data stored on Dyersburg State Community College computer systems.

Scope

This policy applies to all users of information resources including faculty, staff, students, part-time workers, adjunct faculty, temporary workers, vendors and any other authorized users.

Policy

I. Secure Authentication Methods

- A. Secure methods that uniquely identify the user shall be used for authentication of access to all DSCC networks and systems. Examples of secure authentication methods include passwords, two-factor authentication (2FA), biometrics, and public/private key pairs.

II. Password (and Passphrase) Construction

- A. To safeguard institutional data access, it's essential to establish and maintain robust password management protocols. All users are obliged to create secure passwords for network and system access in alignment with the given guidelines (except when technological limitations prevent adherence).
- B. Instead of conventional passwords, passphrases may be utilized. Passphrases are exempt from complexity requirements.
- C. Both passwords and or passphrases shall be at least **14 characters** long at a minimum.
- D. Passwords should include at least three out of the following four character types:
 - 1. Uppercase letters
 - 2. Lowercase letters
 - 3. Numbers
 - 4. Special characters or symbols (when allowed by the software)

III. Password Management

- A. Storage and Visibility

1. Passwords must not be stored in a manner which allows unauthorized access.
2. Passwords will not be stored in a clear text file.
3. Passwords will not be sent via unencrypted e-mail.

B. Changing Passwords

1. If 14-character passwords or longer and/or passphrases are used, there is no requirement for routine password expiration/rotation. Otherwise, users must change their passwords every 120 days.
2. Passwords must be changed within one business day if any of the following events occur:
 - a. Unauthorized password discovery or usage by another person
 - b. System compromise (unauthorized access to a system or account)
 - c. Insecure transmission of a password
 - d. Accidental disclosure of a password to an unauthorized person
 - e. Status changes for personnel with access to privileged and/or system accounts
3. Password files or hashes should not be shared with any entity without formal written consent.

C. System Accounts

1. System accounts are not required to expire but must meet the password construction requirements above (where supported by the underlying technologies).
2. Vendor-provided passwords must be changed upon installation using the password construction requirements above (where supported by the underlying technologies).

IV. Multi-Factor Authentication (MFA)

- A. Multi-factor authentication (MFA) is required to be used by all users with public-facing access to critical systems such as information systems, email, or remote access such as virtual private networks (VPN).

V. Access Controls

- A. Access to information assets must be restricted to authorized users and must be protected by appropriate physical, administrative, and logical

- authentication and authorization controls.
- B. Protection for information assets must be commensurate with the classification level assigned to the information.
 - C. Each computer system shall have an automated access control process that identifies and authenticates users and then permits access based on defined requirements or permissions for the user or user type.
 - D. All users of secure systems must be accurately identified; a positive identification must be maintained throughout the login session, and actions must be linked to specific users.
 - E. Access control mechanisms may include user IDs, access control lists, constrained user interfaces, encryption, port protection devices, secure gateways/firewalls, and host-based authentication.

VI. Access Privileges

- A. Each user's access privileges shall be authorized on a need-to-know basis as dictated by the user's specific and authorized role.
- B. Authorized access shall be based on least privilege, meaning only the minimum privileges required to fulfill the user's role shall be permitted.
- C. Access privileges shall be defined to maintain appropriate segregation of duties to reduce the risk of misuse of information assets.
- D. Any access granted to data must be authorized by the appropriate data trustee.
- E. Access privileges shall be controlled based on the following criteria as appropriate:
 - 1. Identity (user ID)
 - 2. Role or function
 - 3. Physical or logical locations
 - 4. Time of day/week/month
 - 5. Transaction-based access
 - 6. Access modes such as read, write, execute, delete, create, and/or search
- F. Privileged access (e.g., administrative accounts, root accounts) must be granted based strictly on role requirements.
- G. The number of personnel with special privileges should be carefully limited.

VII. Access Account Management

- A. User ID accounts must be established, managed, and terminated to maintain the necessary level of data protection.
- B. The following requirements apply to network logons as well as individual

application and system logons and should be implemented where technically and procedurally feasible:

1. Account creation requests must specify access either explicitly or request a role that has been mapped to the required access.
2. New accounts created by mirroring existing user accounts must be audited against the explicit request or roles for appropriate access rights.
3. Accounts must be locked out after an institution-defined number of three (3) consecutive invalid logon attempts.
4. When a user account is locked out, it should remain locked out for a minimum of fifteen (15) minutes or until authorized personnel unlock the account.
5. User interfaces must be locked after ten (10) minutes of system/session idle time.
 - a. This requirement applies to workstation and laptop sessions as well as application sessions where feasible.
 - b. The office of information technology shall implement measures to enforce this requirement and to require the user to re-authenticate to reestablish the session.
 - c. Instructor stations in classrooms and testing lab computers are exempted from this requirement and have a 1 hour timeout before locking.
6. Systems housing or using restricted information must be configured in such a way that access to the restricted information is denied unless specific access is granted.
7. Access to restricted information is never to be allowed by default.
8. Information Technology personnel revoke access upon notification that access is no longer required in accordance with the following procedures:
 - a. Access privileges of terminated or transferred users must be revoked or changed as soon as notification of termination or transfer occurs.
 - b. In cases where an employee is not leaving on good terms, the user ID must be disabled simultaneously with departure.
 - c. Access for users who are on leaves of absence or extended disability must be suspended until the user returns.
 - d. Access to Banner Admin Pages is consistently denied to adjunct faculty members unless authorized for specific additional job duties and

approved by the Chief Information Officer and the appropriate Academic Dean.

9. User IDs will be disabled after a period of 120 days of inactivity. Access may be restored at the request of the supervisor and/or the appropriate Vice President or the President.
10. All third-party access (contractors, business partners, consultants, vendors) must be authorized and monitored using processes determined by the individual campuses.
11. Appropriate logging will be implemented commensurate with the sensitivity/criticality of the data and resources.
12. Logging of attempted access must include failed logons.
13. Where practical, successful logons to systems with restricted information shall be logged.
14. Logs should be monitored and regularly reviewed to identify security breaches or unauthorized activity.
15. Logs shall be maintained for at least ninety (90) days.
16. A periodic audit of secured systems to confirm that access privileges are appropriate must be conducted. The audit will consist of reviewing and validating that user access rights are still needed and are appropriate.
17. Applications requiring an account not tied to a single user shall employ service-based accounts. Users oversee these accounts and maintain their passwords.
18. Applications requiring these accounts shall be monitored and audited by procedures dictated by the application for which they are provisioned.
19. Service-based accounts, due to their application-centric use, are not subject to standard user account management rules.

Compliance

The policy applies to all users of information resources, including students, faculty, staff, temporary workers, vendors, and any other authorized users. Persons in violation of this policy are subject to a range of sanctions determined and enforced by DSCC, including the loss of computer network access privileges, disciplinary action, dismissal from the institution, and legal action. Some violations may constitute criminal offenses per Tennessee and other local and federal laws. The institution will carry out its responsibility to report such violations to the appropriate authorities. Documented exceptions to this policy may be

granted by the Chief Information Officer or the President based on limitations to risk and use.

Definitions

Authentication: A process that allows a device or system to verify the unique identity of a person, device, or other system that is requesting access to a resource.

Digital identity: Information on an entity used by computer systems to represent an external agent. That agent may be a person, organization, application, or device. Also referred to as a user account or user profile.

System account: A special account used for automated processes without user interaction or for device management. These accounts are not assigned to an individual user for login purposes.

Privileged account: An account with elevated access or privileges to a secure system or resource. This type of account is authorized and trusted to perform security-relevant functions that an ordinary user account is not authorized to perform. Privileged accounts are assigned to individual users.

Revision History

Policy approved by Administrative Council on 10/31/14.

Policy revised and approved by Administrative Council on 1/31/2020.

Policy revised (and brought in sync with TBR Policy 1.08.03.00) and approved by Administrative Council on 10/24/2024