1.0 PURPOSE

This standard establishes the minimum general requirements for Access Controls and Audit Trails of Information Technology (IT) systems.

2.0 SCOPE

This standard applies to all state agencies and authorized users meeting the criteria identified in the State Information Security Program Policy, Section 1.2, Scope and Applicability.

3.0 EFFECTIVE DATES

This standard becomes effective at the time of approval of the State Chief Information Officer (CIO).

4.0 RESPONSIBILITIES

The agency head and appointed Information Security Officer (ISO) have the responsibility to ensure the implementation of and compliance with this standard.

5.0 RELATED DOCUMENTS

State Information Security Program Policy, 100
Data Sensitivity, S.3.02.01

6.0 STANDARD

6.1 User Access Controls

The following user access control requirements will apply:

A. All data shall be protected by access controls, comparable to the level of classification, to ensure that it is not improperly disclosed, modified, deleted, or rendered unavailable.

B. All agreements or contracts with individuals or groups, other than state employees, must identify the access requirements as part of the contract.

C. System managers shall reevaluate system access privileges granted to all users quarterly.

D. Access rights and privileges for every State system shall be reviewed in the event of a change of access, whether by termination of contract, termination of employment, revocation of rights, reassignment, or other separation from agency, department, or service.

E. Agencies that retain or have been given stewardship of data are responsible for determining who may have access to the data. Criteria shall be established in granting each user or class of user access to information/data.

   1. The criteria shall be based on the concept of least privilege. Least privilege is based on the user’s job function, the minimum set of privileges required to perform that function, and the need to have separation of duties.
2. The separation of duties shall be based on the sensitivity of the system or information accessed to prevent an individual from having all necessary authority or information access to allow fraudulent activity without collusion.

F. System managers must be able to produce a report of user IDs and access rights for their system upon demand, for the support of investigations and audits.

6.2 Technical Access Controls

Technical access controls are implemented at a technical resource level and exist independent of individual user account(s).

A. Access to data considered sensitive or private, or mandated to be so, shall be controlled using technology resources, such as digital identity devices, encryption software, or evolving secure identity methods. It is the responsibility of the agency to research, classify, and protect the data accordingly, prior to allowing access to the data.

B. All systems must present a warning banner approved by the agency, that meets all governance requirements applicable to that agency.

6.3 Logging

A. Agencies shall assess appropriate logging levels for systems they are responsible for and document logging procedures for security purposes. Logging procedures will be reviewed at least annually.

B. All system and application logs shall be maintained in a form that cannot readily be viewed or altered by unauthorized persons.

C. Agencies must regularly analyze logs to identify unauthorized activity.

D. Any software required to read or generate reports from log files must be retained at least as long as the log files.

6.4 Audit Trails

A. All agencies must maintain a change control process for documenting system administrative changes or updates to production systems.

B. Audit trail information will be retained for an appropriate amount of time based on requirements applicable to the agency.

7.0 DEFINITIONS

None

8.0 RESOURCES

Center for Internet Security (CIS), CIS Controls v7.1 Guide
9.0 EXCEPTIONS

Requests for exception to the requirements of this Information Security Standard must be documented, provided to the Office of Information Security (OIS), and approved by the State Chief Information Security Officer (CISO).

Approved By

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<tr>
<td>State Information Security Committee</td>
<td>Approved by Committee</td>
<td>11/19/2020</td>
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<tr>
<td>State Chief Information Security Officer (CISO)</td>
<td>Signature on File</td>
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Document History

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<td>C</td>
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<td>Review and updates for access and logging standards</td>
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