101 - Access Control for Remote Access Standard

Purpose

This standard is intended to facilitate the attainment of the Access Control Policy and associated Information Technology (IT) Security Policy objectives.

Standard

This standard uses the NIST SP 800-53 Rev. 5 framework as the guideline to establish control objectives to address a diverse set of security and privacy requirements. Not all controls within NIST SP 800-53 Rev. 5 may be selected for the Statewide baseline policies and standards. Agencies must categorize their data and identify the potential impact (high, moderate, or low), and select controls appropriately. This standard uses Table 3-1 in NIST SP 800-53B for the allocated impact levels (high, moderate, low) of controls and control enhancements. At a minimum, all low controls are selected, and certain moderate controls are selected. Agencies are to reflect their controls through the annual reporting process to DOA-DET.

Executive Branch Agencies are to develop policies, procedures, or processes for their own State information systems and system environments to protect State information, if applicable. Some agencies will have specific regulatory requirements that they must adhere to that go beyond what other agencies would need to adhere to. Implementation of the standard controls within this document can be (1) a common (inheritable) control, (2) a system-specific control, or (3) a hybrid control. The control implementation defines the scope of applicability for the control, the shared nature or inheritability of the control, and the responsibility for control development, implementation, assessment, and authorization. Agencies should consider the following for inclusion in their policies, procedures, or processes:

Remote Access (AC-17):

- Establish and document usage restrictions, configuration/connection requirements, and implementation guidance for each type of remote access allowed.
- Authorize each type of remote access to the system prior to allow such connections.

Monitoring and Controlling (AC-17(1)):

- Employ automated mechanisms to monitor and control remote access methods.

Protection of Confidentiality and Integrity Using Encryption (AC-17(2)):

- For systems and data identified as moderate risk, implement cryptographic mechanisms to protect the confidentiality and integrity of remote access sessions.

Mange Access Control Points (AC-17(3)):

- Route remote access through authorized and managed network access control points.

Privileged Commands and Access (AC-17(4)):

- Authorize the execution of privileged commands and access to security-relevant information via remote access only in a format that provides assessable evidence and following agency needs.

Definitions

Executive Branch Agency - State of Wisconsin legislatively defined Departments and all customers of DET services, equipment, and/or technologies.

State information - Any information that is created, accessed, used, stored, or transmitted by an Executive Branch Agency.

DET/State information systems and system environments - All equipment or services used to input, store, process, transmit, and output information, including, but not limited to: network devices, servers, databases, printers, Internet, email, physical, virtual, cloud, and applications accessible to and/or managed the agency.

Exception Process

Exceptions to any Executive Branch Agencies Security Policies, Procedures or Standards must follow the Executive Branch Agencies Exception Procedure.

Document History/Owner

This standard was developed as required by the State of Wisconsin Information Technology Security Policy Handbook, under the authority of Wisconsin State Statute 16.971.

This standard is effective upon approval and publication until retired. Revisions and updates continue the effective date by documenting required changes over time.

Ownership for this standard is assigned to DOA, DET Bureau of Security. As such, the DOA, DET Bureau of Security is responsible for the maintenance, update(s), and review of this document annually before the anniversary of the effective date.

Version #	Revision or Review Date	Description of Change(s)	Reviewer/Author	Date Approved
1.0	10/15/18	Submitted to and approved by the IT Executive Steering Committee	Reviewer: ITESC Author: DOA/DET	10/15/18
1.0	10/29/19	Reviewed with Agency Security Officers and feedback collected. Planning for making revisions.	Bureau of Security	10/29/19
2.0	11/03/20	Reviewed with Agency Security Officers and IT Directors and changes were incorporated	Reviewer: WI ISAC/ITDC Author: DOA/DET/BOS	11/11/20
3.0	06/24/22	Reviewed with Agency Security Officers and IT Directors and changes were incorporated	Reviewer: ITESC Author: DOA/DET	06/24/22
NOTE: Keep only the origination and the last 10 years of update information. Only notate prior three revisions. Include only interim/final revision statuses.				

Authorized and Approved by:

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