



200 - Physical and Environment Protection Standard

Purpose

The Physical and Environment Protection Standard provides documentation of the minimum physical access controls and environment protection requirements for datacenters that are used to store, process, and transmit State information.

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. 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:

Physical Security Access Authorizations (PE-2):

- Developing, approving, and maintaining a list of individuals with authorized access to the facility, including areas where system and system components reside.
- Issue authorization credentials for facility access and require individuals to wear identification badges.
- Review the access list detailing authorized facility access by individuals monthly.
- Remove individuals from the facility access list when access is no longer required.

Physical Access Control (PE-3):

- Enforcing physical access authorizations at Agency-defined entry and exit points by:
 - Verifying individual access authorizations before granting access to the facility, and



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- Controlling ingress and egress to the facility using Agency-defined physical access control systems, devices, or guards.
- Maintaining physical access audit logs for Agency-defined entry or exit points.
- Controlling access to areas within the facility designated as publicly accessible by implementing Agency-defined physical access controls.
- Defining Agency circumstances when requiring visitor escorts and controlling visitor activity.
- Securing keys, combinations, and other physical access devices.
- Inventory physical access devices annually.
- Change combinations and keys annually and/or when keys are lost, combinations are compromised, or when individuals processing keys or combinations are transferred or terminated.

Physical Barriers (PE-3(7))

- A minimum of two barriers are required to limit access.

Access Control for Transmission (PE-4):

- Controlling physical access to Agency-defined system distribution and transmission lines within Agency facilities using defined access controls to prevent accidental damage, disruptions, and physical tampering.

Access Control for Output Devices (PE-5):

- Controlling physical access to output from Agency-defined output devices to prevent unauthorized individuals from obtaining the output (e.g., monitors, printers, scanners, audio devices, fax machines, and copiers.)

Monitoring Physical Access (PE-6):

- Monitoring physical access to the facility where systems reside to detect and respond to physical security incidents.
- Review physical access logs monthly and upon occurrence of Agency-defined events or potential indications of events.

Monitoring Physical Access (PE-6(1)):

- Monitoring physical access to the facility where the systems reside using physical intrusion alarms and surveillance.

Visitor Access Records (PE-8):

- Maintaining visitor access records to the facility where the system resides for a minimum of 5 years.
- Review visitor access records monthly.
- Report anomalies in visitor access records to defined Agency personnel.



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Power Equipment and Cabling (PE-9):

- Protecting power equipment and power cabling for the system from damage and destruction.

Emergency Shutoff (PE-10):

- Providing the capability of shutting off power to systems in emergency situations;
- Placing emergency shutoff switches or devices within datacenters to facilitate access for authorized personnel; and
- Protecting emergency power shutoff capability from unauthorized activation.

Emergency Power (PE-11):

- Providing an uninterruptible power supply to facilitate an orderly shutdown of the system and/or transition of the system to long-term alternative power, in the event of a primary power source loss.

Emergency Lighting (PE-12):

- Employ and maintain automatic emergency lighting for the system that activates in the event of a power outage or disruption and that covers emergency exits and evacuation routes within the facility.

Emergency Lighting | Essential Mission and Business Functions (PE-12(1)):

- Provide emergency lighting for all areas within the facility supporting essential mission and business functions.

Fire Protection (PE-13):

- Employ and maintain fire detection and suppression systems that are supported by an independent energy source.

Detection Systems – Automatic Activation and Notification (PE-13(1))

- Employ fire detection systems that activate automatically and notify Agency-defined personnel or roles and Agency-defined emergency responders in the event of a fire.

Environmental Controls (PE-14):

- Maintain and monitor temperature and humidity controls in datacenters where State information systems and system environments reside.

Water Damage Protection (PE-15):

- Protect the State information systems and system environments from damage resulting from water leakage by providing a master shutoff or isolation valves that are accessible, working properly, and known to key personnel.

Water Damage Protection | Automation Support (PE-15(1)):

- Detect the presence of water near the system and alert Agency-defined personnel or roles using Agency-defined automated mechanisms.



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Delivery and Removal (PE-16):

- Authorize and control physical and environmental equipment that enter and exit secure areas in the facility.

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.

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.

Surveillance Equipment – Examples include motion sensors, video cameras, and broken glass sensors.

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.



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Authorized and Approved by:

Alan Greenberg, CISO

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