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#### Scope

The Statewide Information Security Policies are the foundation for information technology security in North Carolina. The policies set out the statewide information security standards required by N.C.G.S. §143B-1376, which directs the State Chief Information Officer (State CIO) to establish a statewide set of standards for information technology security to maximize the functionality, security, and interoperability of the State's distributed information technology assets, including, but not limited to, data classification and management, communications, and encryption technologies. This policy covers all State information and information systems to include those used, managed, or operated by a contractor, an agency, or other organization on behalf of the State. This policy applies to all State employees, contractors, and all other users of State information and information systems that support the operation and assets of the State. Use by local governments, local education agencies (LEAs), community colleges, constituent institutions of the University of North Carolina (UNC) and other executive branch agencies is encouraged to the extent allowed by law. This security policy is consistent with applicable laws, executive orders, directives, regulations, and other policies, standards, and guidelines.

#### Material Superseded

This current policy supersedes all previous versions of the policy. All State agencies and vendors of the State are expected to comply with the current implemented version of this policy.

#### Responsibilities

All covered personnel who utilize State of NC IT resources are responsible for adhering to this policy and any local Configuration Management requirements.

Role	Definition
Agency	The Agency Head, the Chief Information Officer (CIO), the Chief Information Security Officer
Management	(CISO), or other designated organizational officials at the senior leadership level are assigned the responsibility for the continued development, dissemination, implementation, operation and monitoring of the Configuration Management program. Ensures that personnel with significant responsibilities for configuration management are trained.
Agency Security Liaison	The Agency Security Liaison is responsible for ensuring that security risks are managed in compliance with the State's requirements by collaborating with organizational entities. Liaisons are responsible for ensuring the appropriate configuration management controls are in effect for agency information systems.

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Information System Owner	The information system owner is the individual responsible for the overall procurement, development, integration, modification, or operation and maintenance of the information system. Develops and maintains configuration management for the information system in coordination with information owners, the system administrator, the information system security officer, and functional "end users."
Information Owner	The information owner is the individual with operational responsibility and authority for specified information and responsibility for establishing the controls for its generation, collection, processing, dissemination, and disposal. Provides input to information system owners regarding security requirements and security controls for the information system(s) where the information resides. Decides who has access to the information system and with what types of privileges or access rights.
Covered Personnel	Covered personnel must provide Configuration Management capabilities that meet agency requirements. Configuration Management practices are subject to periodic review by the agencies.

#### CM-1 – Policy and Procedures

All information assets that process, store, receive, transmit or otherwise could impact the confidentiality, integrity, and accessibility of State data must meet the required security controls defined in this policy document that are based on the National Institute of Standards and Technology (NIST) SP 800-53, Security and Privacy Controls. This document addresses the requirements set forth by the State to implement the family of Configuration Management security controls at the organization, process and/or system level for all information assets / State data. This document provides requirements for the configuration management process which is required to assure that information systems are designed and configured using controls sufficient to safeguard the State's information systems.

The State has adopted the Configuration Management security principles established in NIST SP 800-53, "Configuration Management" control guidelines as the official policy for this security domain. The "CM" designator identified in each control represents the NIST-specified identifier for the Configuration Management control family. The following subsections in this document outline the Configuration Management requirements that each agency must implement and maintain in order to be compliant with this policy. This policy and associated procedures shall be reviewed and updated annually, at a minimum. They shall also be updated following agency-defined events that necessitate such change.

This policy and the associated procedures shall be developed, documented, and disseminated by the Agency Head, the Chief Information Officer (CIO), the Chief Information Security Officer (CISO), or other designated organizational officials at the senior leadership level.

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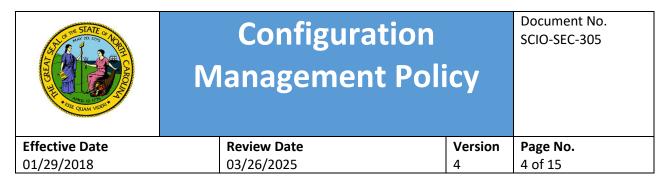
# CM-2 – Baseline Configuration

Common security configurations shall be made available that provide a baseline level of security, reduce risk from security threats and vulnerabilities, and save time and resources. This requirement allows agencies to improve information system performance, decrease operating costs, and ensure public confidence in the confidentiality, integrity, and availability of State data. The following shall be done:

- a. A current baseline configuration must be developed, reviewed, approved, documented, and maintained under configuration control for each information system. The Department of Information Technology (DIT) shall be responsible for baseline configurations for enterprise solutions.
- b. A baseline configuration must document and provide information about the components of an information system including the following:
  - i. Standard operating system/installed applications with current version numbers
  - ii. Standard software load for workstations, servers, network components, and mobile devices and laptops
  - iii. Up-to-date patch level information
  - iv. Network topology
  - v. Logical placement of the component within the system and enterprise architecture
  - vi. Technology platform
- c. New baselines must be created as the information system changes over time to maintain the baseline configuration.
- d. Ensure product versions of technologies are kept up to date and the latest security patches are applied.

Agencies will ensure "best effort" to maintain all information technologies within N-1, where "N" is a major version. At minimum all operating systems and primary applications shall be maintained at baseline security configurations of no less than N-2. All current security patches for information technologies shall be applied prior to deployment and shall be maintained as meets or exceeds the SI-2 Flaw Remediation control. Whereas, "best effort" means taking, in good faith, all reasonable steps to achieve the objective, carrying the process to its logical conclusion and leaving no stone unturned.

- e. Utilize best practice system hardening baselines for the operating systems. Refer to CM-6 Configuration Settings for a list of approved baselines.
- i. In cases where a baseline security configuration does not exist for an operating system, the State Chief Information Security Officer (SCISO) or designee shall ensure a baseline security configuration is developed, documented, and approved.



- f. Document any exceptions to baseline security configurations and obtain approval by the SCRO or designee.
- g. Maintain records confirming the implementation of baseline security configurations for each IT system they manage.
- h. Review and update the baseline configuration for information systems:
  - i. Annually, at a minimum
  - ii. When required due to system upgrades, patches, or other significant changes have occurred in the baseline configuration
  - iii. As an integral part of information system component installations and upgrades
  - iv. When an increase in interconnection with other systems outside the authorization boundary or significant changes in the security requirements for the system

# CM-2 (2) Baseline Configuration |Automation Support for Accuracy and Currency

The currency, completeness, accuracy, and availability of the baseline configuration of the system shall be maintained using automated mechanisms such as the following:

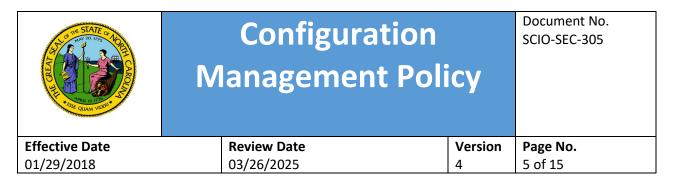
- a. Backup of individual configuration files, or similar method that allows for only the restore of the configuration
- b. Snapshot systems or applications that may also allow for reviewing differences or compliance
- c. Version control applications that are operated on a system separate from those being versioned

### CM-2 (3) – Baseline Configuration | Retention of Previous Configurations

Retain previous versions of baseline configurations of the information system to support rollback, for example, hardware, software, firmware, configuration files, and configuration records.

# CM-2 (7) Baseline Configuration | Configure Systems and Components for High-Risk Areas

All devices taken to high-risk areas external to the organization should be considered compromised upon return from those areas. They could contain malicious software that you do not want to introduce to the State's network or to your home network. Systems and components used for high-risk areas shall be configured as follows:



- a. Issue organizational defined selected systems with defined configurations to individuals traveling to locations that the organization deems to be of significant risk. Refer to the International Travel Policy.
- b. Have laptops, cellphones, and portable devices sanitized *prior* to travel.
- c. Have devices that will be in high-risk areas securely erased and rebuilt, either from an existing backup or through a new installation of the operating system.

### CM-3 – Configuration Change Control

Changes to systems and application programs shall be managed to protect the systems and programs from failure as well as security breaches. Adequate management of system change control processes shall require the following:

- a. Safeguard production systems during modification, including emergency changes.
- b. Enforcement of formal change control procedures.
- c. Proper authorization and approvals at all levels.
- d. Successful testing of updates and new programs prior to their being moved into a production environment.
- e. Determine and document the types of changes to the information system that are configuration controlled.
- f. Review proposed configuration-controlled changes to the information system and approve or disapprove such changes with explicit consideration for security and privacy impact analyses.
- g. Document configuration change decisions associated with the information system.
- h. Implement approved configuration-controlled changes to the information system.
- i. Retain records of configuration-controlled changes to the information system for the life of the system.
- j. Monitor and review activities associated with configuration-controlled changes to the information system.
- k. Coordinate and provide oversight for configuration change control activities through a Configuration Control Board that convenes when configuration changes occur.
- I. Test, validate, and document changes to the information system before implementing the changes on the system.
- m. Ensure updates addressing significant security vulnerabilities are prioritized, evaluated, tested, documented, approved, and applied promptly to minimize the exposure of unpatched resources.



Vulnerability Management requirements are addressed in the System and Information Integrity Policy SCIO-SEC-317, Section SI-2.

- n. Integrate application change control and operational change control procedures. This effort should include the following processes, controls, and best practices:
  - i Controls and approval levels for updating libraries
  - ii Requiring formal agreement and approval for any changes
  - iii Restricting library content
  - iv Restricting programmers' access to only those parts of the system necessary for their work
  - v Version control for each application.
  - vi Tying program documentation updates to source code updates
  - vii Audit logs that track all accesses to libraries, copying and use of source code, and updates posted to libraries
- o. Define job responsibilities/restrictions and establishing authority levels for the following:
  - i. Program librarian(s)
  - ii. Developers (i.e., should neither test their own code nor promote it into production)
  - iii. Other IT staff
- p. Identify personnel authorized to make or submit changes to the source library (i.e., a program librarian) for each major application to control check-in/check-out.
- q. Provide role-based training for business and technical users covering new features and security controls introduced by the upgrade.
- r. Use rollback procedures designed to recover to previous stable version of programs.

# CM-3 (4) – Configuration Change Control | Security and Privacy Representatives

Organizational defined security and privacy representatives shall be members of the Configuration Control Board.

#### CM-4 –Impact Analyses

When significant changes are planned for, or made to, a system, the system owners, agency security liaison or business owners for systems shall conduct impact analyses to determine which security and privacy controls shall be assessed for proper implementation and operation. An impact analysis may

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include, for example, reviewing plans to understand security and privacy control requirements and reviewing system design documentation to understand control implementation and how specific changes might affect the controls. The following risk impact analyses activities shall be incorporated into the documented configuration change control process:

- a. Identification of the Federal, State, and Local regulatory or legal requirements that address the security, confidentiality, and privacy requirements for agency functions or services.
- b. Identification of Restricted or Highly Restricted information, which are stored in the agency's files, and the potential for fraud, misuse, or other illegal activity. Data classifications are defined within the Statewide Data Classification and Handling policy.
- c. Identification of essential access control mechanisms used for requests, authorization, and access approval in support of critical agency functions and services.
- d. Identification of the processes used to monitor and report to management on whatever applications, tools, and technologies the agency has implemented to adequately manage the risk as defined by the agency (i.e., baseline security reviews, review of logs, use of IDs, logging events for forensics, etc.).
- e. Identification of the agency's IT Change Management and Vulnerability Assessment processes.
- f. Identification of the security and privacy mechanisms that are in place to conceal agency data, for example the use of encryption, data masking, etc.
- g. Changes shall be analyzed and evaluated for the impact on security and privacy preferably before they are approved and implemented.
- h. Security and Privacy risk analysis requirements and definitions are addressed in the Risk Assessment Policy SCIO-SEC-314, Section RA-3.

# CM-4 (2) Impact Analyses | Verification of Controls

Organizations shall verify (after system changes) that the impacted controls are implemented correctly, operating as intended, and producing the desired outcome with regard to meeting the security and privacy requirements for the system.

#### CM-5 – Access Restrictions for Change

Physical and logical access restrictions associated with changes to the information system shall be defined, documented, approved, and enforced. The following shall be done:

a. Only qualified and authorized individuals are allowed to obtain access to information system components for purposes of initiating changes, including upgrades and modifications.

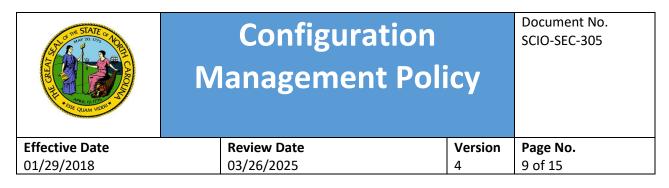


- b. All requests for local administrative rights must be documented and approved by agency management.
- c. Access records must be maintained to ensure that configuration change control is being implemented as intended and for supporting after-the-fact actions should the State become aware of an unauthorized change to an information system.
- d. Privileges to change information system components and system-related information within a production or operational environment shall be limited to avoid unintended changes to other systems and business processed.
- e. Use two-person integrity to ensure that changes to defined critical systems cannot occur unless both individuals implement such changes.
- f. Restrict access to operating system and operational or production application software/program libraries to designated staff only.

#### CM-6 – Configuration Settings

Configuration settings are the set of parameters that can be changed in hardware, software, or firmware components of the information system that affect the security posture and/or functionality of the system. Security-related configuration settings can be defined include, for example, mainframe computers, servers (e.g., database, electronic mail, authentication, web, proxy, file, domain name), workstations, input/output devices (e.g., scanners, copiers, and printers), network components (e.g., firewalls, routers, gateways, voice and data switches, wireless access points, network appliances, sensors), operating systems, middleware, and applications. The following requirements shall be implemented:

- a. A standard set of mandatory configuration settings must be established and documented for information technology components employed within the information system. Standard Configuration Documents (SCDs) must detail the configuration settings.
- b. The selected configuration settings, whether State standards or designed specifically for the information system, must reflect the most restrictive mode consistent with operational requirements and must be derived from the following sources, listed in order of precedence:
  - i. NIST recommended configurations and common secure configurations: https://ncp.nist.gov/repository
  - ii. Defense Information Systems Agency (DISA) common secure configurations and Standard Technical Implementation Guides (STIGs): <u>https://public.cyber.mil/stigs/downloads/</u>
  - iii. National Security Agency (NSA) configuration guides: https://apps.nsa.gov/iaarchive/library/ia-guidance/security-configuration/index.cfm

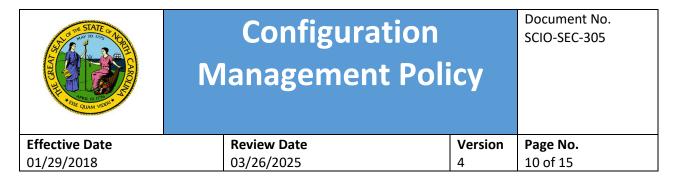


- iv. Center for Internet Security (CIS) benchmarks: <u>https://www.cisecurity.org/cis-benchmarks/</u>
- v. Safeguard Computer Security Evaluation Matrix (SCSEM): <u>https://www.irs.gov/privacy-disclosure/computer-security-compliance-references-and-related-topics</u>, for systems that store, process, or transmit federal tax information (FTI).
- c. Identify, document, and approve any deviations from established configuration settings for information systems.
- d. Monitor and control changes to the configuration settings in accordance with organizational policies and procedures.

### CM-7 – Least Functionality

The following requirements shall be implemented to provide least functionality:

- a. Configure information systems to provide only essential capabilities and specifically prohibit or restrict the use of functions, ports, protocols, and/or services that are not required for the business function of the information system.
- b. Where technically configurable, component functionality shall be limited to a single function per device (e.g., email server, web server, etc.).
- c. Disable any functions, ports, protocols, and services within an information system that are deemed to be unnecessary and/or non-secure. Organizations can either decide the relative security of a function, port, protocol, and/or service or base a security decision on the assessment of other entities. The use of the following functions, ports, protocols, software and/or services, at a minimum, must be specifically prohibited or restricted:
  - i. ARINC-GATEWAY Port 55210 / TCP
  - ii. Background File Transfer Protocol (BFTP) Port 152 / TCP
  - iii. Border Gateway Protocol (BGP) Port 179 / Transmission Control Protocol (TCP)
  - iv. Courier Port 530 / TCP, User Datagram Protocol (UDP)
  - v. Domain Name System be (DNS) Port 53 / TCP, UDP
  - vi. File Transfer Protocol (FTP) Ports 20, 21 / TCP
  - vii. Finger Port 79 / TCP
  - viii. Hypertext Transfer Protocol (HTTP) Port 80 / TCP; 443 / TCP
  - ix. HTTP-MGMT Port 280 / TCP
  - x. Identification Protocol (IDENT) Port 113 / TCP, UDP
  - xi. Internet Control Messaging Protocol (ICMP) block incoming echo request (ping and Windows traceroute) block outgoing echo replies, time exceeded, and destination



unreachable messages except "packet too big" messages (type 3, code 4). **Note:** Blocking ICMP will restrict legitimate use of PING to restrict malicious activity.

- xii. Internet Message Access Protocol (IMAP) Port 143 / TCP, UDP
- xiii. Internet Relay Chat (IRC) Port 194 / UDP
- xiv. Lightweight Directory Access Protocol (LDAP) Port 389 / TCP, UDP
- xv. Line Printer Daemon (LPD) Port 515 / TCP
- xvi. LOCKD Port 4045 / TCP, UDP
- xvii. Network Basic Input Output System (NetBIOS) Ports 135, 445 / TCP, UDP; 137-138 / UDP; 139 / TCP
- xviii. Network File System (NFS) Port 2049 / TCP, UDP
- xix. Network News Transfer Protocol (NNTP) Port 119 / TCP
- xx. Network Time Protocol (NTP) Port 123 / TCP
- xxi. Oracle Names (ORACLENAMES) Port 1575 / TCP, UDP
- xxii. Port Mapper (PORTMAP/RPCBIND) Port 111 / TCP, UDP
- xxiii. Post Office Protocol 3 (POP3) Ports 109-110 / TCP
- xxiv. r Services Ports 512-514 / TCP
- xxv. Secure Shell (SSH) Port 22 / TCP
- xxvi. Session Initiation Protocol (SIP) Port 5060 / TCP, UDP
- xxvii. Shell Port 514 / TCP
- xxviii. SIDEWINDER-COBRA, (S) Port 2809 & 9002 / TCP
- xxix. Simple File Transfer Protocol (SFTP) Port 115 TCP, UDP
- xxx. Simple Mail Transfer Protocol (SMTP) Port 25 / TCP
- xxxi. Simple Network Management Protocol (SNMP) Ports 161-162 / TCP, UDP
- xxxii. Snare Port 509 / TCP, UDP
- xxxiii. Socket Secure (SOCKS) Port 1080 / TCP
- xxxiv. SOFTWAREAGWEBMETHODS Port 6849 / TCP
- xxxv. Structured Query Language (SQL) Port 118 / TCP, UDP; Port 156 / TCP, UDP
- xxxvi. Super Duper Telnet Port 95 / TCP
- xxxvii. SYMANTEC-ITA Port 3833-3836 / TCP
- xxxviii. Syslog Port 514 / UDP
- xxxix. Telnet Port 23 / TCP
- xl. TIME Port 37 / TCP, UDP
- xli. TIMBUKTU Port 407 / TCP, UDP
- xlii. Trivial File Transfer Protocol (TFTP) Port 69 / UDP

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- xliii. VNC-SERVER Port 5900 / TCP
- xliv. X Windows Ports 6000-6255 / TCP
- xlv. YAK-CHAT Port 258 / UDP

# CM-7 (1) – Least Functionality | Periodic Review

The following shall be done:

- a. Review the system on a defined frequency to identify unnecessary and/or non-secure functions, ports, protocols, services, and applications; and,
- b. Disable or remove unnecessary and/or non-secure functions, ports, protocols, services, and software.

### CM-7 (2) - Least Functionality | Prevent Program Execution

An information system shall prevent program execution in accordance with organizational-defined policies regarding software program usage and restrictions, and/or rules authorizing the terms and conditions of software program usage.

This control is optional for LOW risk systems.

# CM-7 (5) – Least Functionality | Authorized Software

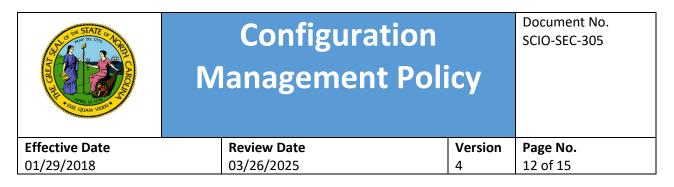
The following shall be done:

- a. Identify organizational-defined software programs authorized to execute on the system.
- b. Review and update the list of authorized software programs per an agency-defined frequency.
- c. Where technically configurable, employ a deny-all, permit-by-exception policy for software executables on systems with Restricted or Highly Restricted data.
- d. This control is optional for LOW risk systems.

# CM-8 – System Component Inventory

The following shall be done:

a. Develop, document, and maintain an inventory of information system components that accurately reflects the current information system environment.



b. Verify that all components within the system are not duplicated in other information system component inventories.

Inventory all components within the authorization boundary of the information system (this may inter-connected systems). The inventory includes information deemed necessary to achieve effective property accountability and is at the level of granularity for tracking and reporting, for example, the following:

- i. hardware inventory specifications (manufacturer, type, model, serial number, physical location),
- ii. software license information,
- iii. information system / component owner(s),
- iv. associated component configuration standard,
- v. software/firmware version information, and
- vi. for a networked component/device, the machine name and network address,
- c. Review and audit information system component inventory,
- d. Include assessed component configurations and any approved deviations to current deployed configurations in the information system component inventory,
- e. Review and update the information system component inventory annually, at a minimum.

# CM-8 (1) – System Component Inventory | Updates during Installation and Removal

The inventory of information system components shall be updated as an integral part of component installations, removals, and information system updates.

# CM-8 (3) –System Component Inventory | Automated Unauthorized Component Detection

Automated mechanisms shall be defined and employed to detect the presence of unauthorized hardware, software, and firmware components within the information system. One or more of the following actions may be taken when unauthorized components are detected:

- i. Disable network access to such components
- ii. Isolate the components
- iii. Notify agency-defined personnel

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This control enhancement is applied in addition to the monitoring for unauthorized remote connections and mobile devices. Monitoring for unauthorized system components may be accomplished on an ongoing basis or by the periodic scanning of systems for that purpose. Automated mechanisms can be implemented within information systems or in other separate devices.

### CM-9 – Configuration Management Plan

A configuration management plan shall be developed, documented, and implemented for information systems that does the following:

- a. Addresses roles, responsibilities, and configuration management processes and procedures,
- b. Defines the configuration items for the information system and when in the system development life cycle (SDLC) the configuration items are placed under configuration management,
- c. Establishes the means for identifying configuration items throughout the SDLC and a process for managing the configuration of the configuration items,
- d. Assigns responsibility for developing the configuration management process to organizational personnel that are not directly involved in system development. In the absence of a dedicated configuration management team, the system integrator may be tasked with developing the configuration management process,
- e. Defines detailed processes and procedures for how configuration management is used to support SDLC activities at the information system level,
- f. Describes how to move a change through the change management process, how configuration settings and configuration baselines are updated, how the information system component inventory is maintained, how development, test, and operational environments are controlled, and finally, how documents are developed, released, and updated,
- g. Creates a step-by-step implementation plan for every configuration change,
- h. Requires that software implementation plans follow change control procedures,
- i. Protects the configuration management plan from unauthorized disclosure and modification,
- j. The configuration management plan approval process must include the following:
  - i. Designation of key management stakeholders who are responsible for reviewing and approving proposed changes to the information system
  - ii. Designation of security personnel that would conduct an impact analysis prior to the implementation of any changes to the system

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#### CM-10 – Software Usage Restrictions

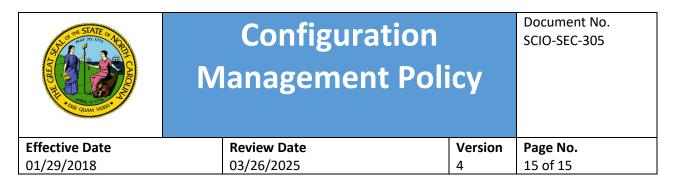
The following shall be done:

- a. Provide employees, contractors and other third parties with guidelines for obeying software licensing agreements, to include open source software, and shall not permit the installation of unauthorized copies of software on technology devices that connect to the State Network.
  - i. Persons involved in the illegal reproduction of software can be subject to civil damages and criminal penalties.
  - ii. Employees, contractors and other third parties shall use software and associated documentation in accordance with contract agreements and copyright laws.
  - iii. Employees, contractors and other third parties who make, acquire, or use unauthorized copies of software shall be disciplined as appropriate. Such discipline may include termination.
  - iv. Open source software must adhere to a secure configuration baseline checklist from the U.S. Government or industry.
- b. Inform their users of any proprietary rights in databases or similar compilations and the appropriate use of such data.
- c. Control and document the use of peer-to-peer file sharing technology to ensure that this capability is not used for the unauthorized distribution, display, performance, or reproduction of copyrighted work.
- d. Establish procedures for software use, distribution, and removal within an organization to ensure organizational use of software meets all copyright and licensing requirements. Procedures shall include the development of internal controls to monitor the number of licenses available and the number of copies in use.

#### CM-11 – User Installed Software

Only standard approved software shall be installed on State owned assets with any deviations being pre-approved by agency management and reviewed by an agency security liaison assigned to perform the review. The following shall be ensured for installed software:

- a. Establish policies governing the installation of software by users.
- b. Enforce software installation policies through automated methods, if available and technically configurable.
- c. Monitor policy compliance quarterly, at a minimum.
- d. Ensure only software programs that are from validated media are installed and are free of harmful code or other destructive aspects.



e. Refer to the Statewide Acceptable Use Policy (AUP) for additional requirements.

### CM-12 – Information Location

The following shall be done:

- a. Identify and document the location of "organizational-defined information" and the specific system components on which the information is processed and stored.
- b. Identify and document the users who have access to the system and system components where the information is processed and stored.
- c. Document changes to the location (i.e., system or system components) where the information is processed and stored.

# CM-12 (1) – Information Location |Automated Tools to Support Information Location

Where technically configurable, automated tools shall be used to identify organizational-defined information by information type on system components to ensure controls are in place to protect organizational information and individual privacy.

#### Enforcement

Violations of this policy or failure to implement provisions of this policy may result in disciplinary action up to and including termination, civil litigation, and/or criminal prosecution.