



MAINTENANCE STANDARD

Standard Title: MAINTENANCE STANDARD (NSU-MA)
Standard Number: 38-10.9
Standard Reference: COV SEC530 INFORMATION SECURITY STANDARD
Control Family: MAINTENANCE (MA)
Approval Date: 10/21/2024
Responsible Office: Office of Information Technology
Responsible Executive: Chief Information Officer

Applies to: All employees, students, visitors, and contractors, in all academic and operational departments and offices at all Norfolk State University locations, and to all university information technology and data, whether owned and operated by the university, or used for university business through contractual arrangements.

STANDARD STATEMENT

All individuals to whom this standard applies shall comply with the Norfolk State University Information Security Standards and protect all IT systems and data to which they have access commensurate with sensitivity and risk. All university information technology and data whether owned and operated by the university, or used for university business through contractual arrangements shall be managed and protected in accordance with the provisions of the Norfolk State University Information Security Standards.

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DEFINITIONS

Authorization: The process of verifying that a requested action or service is approved for a specific entity.



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Authorize: A decision to grant access, typically automated by evaluating a subject's attributes.

Authorized: A system entity or actor that has been granted the right, permission, or capability to access a system resource.

Availability: The property that data or information is accessible and usable upon demand by an authorized person and that timely, reliable access to data and information services is provided for authorized users.

Computer Network: Two or more computers that can share information, typically connected by cable, data line, or satellite link.

Confidentiality: Protection of systems and data so that unauthorized parties cannot view the data, the property that sensitive information is not disclosed to unauthorized entities, and the assurance that information is not disclosed to unauthorized individuals or processes.

Controlled Unclassified Information (CUI): Information the Federal government owns or has created that needs to be safeguarded and disseminated using only controls consistent with Federal laws, regulations and policies.

Data Custodian: An individual or organization in physical or logical possession of data for Data Owners. Data Custodians are responsible for protecting the data in their possession from unauthorized access, alteration, destruction, or usage and for providing and administering general controls, such as back-up and recovery systems.

Data Owner: An individual, who defines, manages, and controls the use of data and ensures compliance with the Information Security Standards with respect to the data.

Information Security: The policies, standards, guidelines, processes, activities, and actions taken to protect the confidentiality, integrity, and availability of information systems and the data they handle commensurate with sensitivity and risk.

Information Security Incident: means an adverse event or situation, whether intentional or accidental, that poses an enterprise impact or threat to the integrity, availability, or confidentiality of university data or systems or requires reporting based upon regulatory requirements.

Information Technology (IT) System: An interconnected set of IT resources under the same direct management control.

Integrity: Guarding against improper information modification or destruction, including ensuring information non-repudiation and authenticity.



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Intellectual Property: Please refer to the BOV POLICY # 35 (2019) INTELLECTUAL PROPERTY POLICY.

Sensitive System: A system that processes any data of which the compromise with respect to confidentiality, integrity, and/or availability could have a material adverse effect on NSU interests, the conduct of NSU programs, or the privacy to which individuals are entitled. Please refer to the 32-02 - Data Classification Policy

Sensitive Information/Data: Any data of which the compromise with respect to confidentiality, integrity, and/or availability could have a material adverse effect on COV interests, the conduct of agency programs, or the privacy to which individuals are entitled. Please refer to the 32-02 - Data Classification Policy

System Administrator: An individual or entity that implements, manages, and/or operates a system at the direction of the System Owner, Data Owner, and/or Data Custodian.

System Owner: An individual or entity responsible for the operation and maintenance of an IT system.

Technological Resources: Technological resources include but are not limited to: computers and terminals, software, printers, networks and equipment, telecommunication equipment and services such as telephones, facsimile machines, modems, basic and long distance calling service, and voicemail; television and radio systems and equipment; computer information systems; and, data files and/or documents managed or maintained by the University which reside on disk, tape or other media. Technology resources also include multimedia equipped classrooms, computer classrooms, computer laboratories, computer offices, and computer furnishings operated or maintained by NSU.

Users: Faculty, staff and students as well as others who have been authorized to use Norfolk State University's technological resources, (e.g., contractors, interns, volunteers, etc.).

CONTACT(S)

The Office of Information Technology (OIT) officially interprets this standard. OIT is responsible for obtaining approval for any revisions as required through the appropriate governance structures. Questions regarding this standard should be directed to OIT Security.

STAKEHOLDER(S)

University Faculty & Staff
Students

Others who have been authorized to use Norfolk State University's technological resources.



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NSU-MA-1 CONTROLLED MAINTENANCE

Control:

- a. Schedule, document, and review records of maintenance, repair, and replacement on system components in accordance with manufacturer or vendor specifications and/or organizational requirements;
- b. Approve and monitor all maintenance activities, whether performed on site or remotely and whether the system or system components are serviced on site or removed to another location;
- c. Require that the Chief Information Security Officer or designee(s) explicitly approves the removal of the system or system components from organizational facilities for off-site maintenance, repair, or replacement;
- d. Sanitize equipment to remove all information from associated media prior to removal from organizational facilities for off-site maintenance, repair, or replacement;
- e. Check all potentially impacted controls to verify that the controls are still functioning properly following maintenance, repair, or replacement actions; and
- f. Include the appropriate maintenance-related information in organizational maintenance records.

NSU-MA-2 MAINTENANCE TOOLS

Control:

- a. Approve, control, and monitor the use of system maintenance tools;
- b. Review previously approved system maintenance tools at least annually;
- c. Inspect the maintenance tools used by maintenance personnel for improper or unauthorized modifications;
- d. Check media containing diagnostic and test programs for malicious code before the media are used in the system;
- e. Prevent the removal of maintenance equipment containing organizational information by:
 1. Verifying that there is no organizational information contained on the equipment;
 2. Sanitizing or destroying the equipment;
 3. Retaining the equipment within the facility; or
 4. Obtaining an exemption from Chief Information Security Officer or designee explicitly authorizing removal of the equipment from the facility;
- f. Restrict the use of maintenance tools to authorized personnel only;
- g. Monitor the use of maintenance tools that execute with increased privilege; and
- h. Inspect maintenance tools to ensure the latest software updates and patches are installed.

NSU-MA-3 NONLOCAL MAINTENANCE

Control:



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- a. Approve and monitor nonlocal maintenance and diagnostic activities;
- b. Allow the use of nonlocal maintenance and diagnostic tools only as consistent with organizational policy and documented in the security plan for the system;
- c. Employ strong authentication in the establishment of nonlocal maintenance and diagnostic sessions;
- d. Maintain records for nonlocal maintenance and diagnostic activities; and
- e. Terminate session and network connections when nonlocal maintenance is completed.

NSU-MA-4 MAINTENANCE PERSONNEL

Control:

- a. Designate organizational personnel with required access authorizations and technical competence to supervise the maintenance activities of personnel who do not possess the required access authorizations; and
- b. Require all system/service maintenance and support be performed by United States citizens or individuals able to attain a valid H1B visa.

EDUCATION AND COMPLIANCE

This standard shall be widely published and distributed to the University community. To ensure timely publication and distribution thereof, the Responsible Office will make every effort to:

- Communicate the standard in writing, electronic or otherwise, to the University community within 30 days of approval;
- Post the standard on the appropriate website; and
- Educate and train all stakeholders and appropriate audiences on the standard's content, as necessary. Failure to meet the publication requirements does not invalidate this standard.

The Chief Information Security Officer (or designee) is responsible for official interpretation of this standard. Questions regarding the application of this standard should be directed to the Office of Information Technology. The Chief Information Security Officer reserves the right to revise or eliminate this standard.

Violations of this standard, including without limitation any misuse of data or IT resources may result in the limitation or revocation of access to University IT resources. In addition, failure to comply with requirements of this standard may result in disciplinary action up to and including termination or expulsion in accordance with relevant University policies, and may violate federal, state, or local laws.

EXCEPTIONS

Exceptions to this standard must be documented in writing and approved by the Vice President for Operations and Chief Strategist, the Chief Information Officer, and the Chief Information Security Officer.

REVIEW SCHEDULE



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- Next Scheduled Review: 10/21/2025
- Approval by, date: OIT Standards Development Group, 10/21/2024
- Revision History: 10/21/2024
- Supersedes: SEC530 Controls

RELATED DOCUMENTS

32-01 - Acceptable Use of Technological Resources

<https://www.nsu.edu/policy/admin-32-01.aspx>

32-02 - Data Classification Policy

<https://www.nsu.edu/policy/admin-32-02.aspx>

38-10 - Information Security Policy