SECURITY CATEGORIZATION AND CONTROL SELECTION FOR NATIONAL SECURITY SYSTEMS

THIS INSTRUCTION PRESCRIBES MINIMUM STANDARDS YOUR DEPARTMENT OR AGENCY MAY REQUIRE FURTHER IMPLEMENTATION
FOREWORD

1. The Committee on National Security Systems (CNSS) Instruction No. 1253, Security Categorization and Control Selection for National Security Systems, provides all Federal Government departments, agencies, bureaus, and offices with guidance on the first two steps of the Risk Management Framework (RMF), Categorize and Select, for national security systems (NSS). This Instruction builds on and is a companion document to National Institute of Standards and Technology (NIST) Special Publication (SP), 800-53, Security and Privacy Controls for Federal Information Systems and Organizations; therefore, it is formatted to align with that document’s section numbering scheme. This Instruction should be used by information systems security engineers, authorizing officials, senior information security officers, and others to select and agree upon appropriate protections for an NSS.

2. The authority to issue this Instruction derives its authority from National Security Directive 42, National Policy for the Security of National Security Telecommunications and Information Systems, which outlines the roles and responsibilities for securing NSS, consistent with applicable law, E.O. 12333, as amended, and other Presidential directives. Nothing in this Instruction shall alter or supersede the authorities of the Director of National Intelligence.

3. This Instruction supersedes CNSSI No. 1253 dated March 15, 2012.

4. All CNSS member organizations should plan their transition to new versions of this Instruction, including periodic updates of the security control allocations. The transition should account for new overlays that are published independently as attachments to Appendix F of this Instruction.

5. CNSSI No. 1253 appendices will be reviewed and administratively updated, as required, on a quarterly basis to reflect changes to protect NSS.

6. Additional copies of this Instruction may be obtained from the CNSS Secretariat or the CNSS website: https://www.cnss.gov.

FOR THE NATIONAL MANAGER

/s/
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CHAPTER ONE
INTRODUCTION

The CNSS has worked with representatives from the Civil, Defense, and Intelligence Communities, as part of the Joint Task Force Transformation Initiative Working Group (JTF) to produce a unified information security framework. As a result of this collaboration, NIST published the following five transformational documents:

- NIST SP 800-30, Guide for Conducting Risk Assessments;
- NIST SP 800-53, Security and Privacy Controls for Federal Information Systems and Organizations; and

The intent of this common framework is to improve information security, strengthen risk management processes, and encourage reciprocity among federal agencies.

1.1 PURPOSE AND SCOPE

The CNSS collaborates with NIST to ensure NIST SP 800-53 contains security controls to meet the requirements of NSS\(^1\) and provides a common foundation for information security across the U.S. Federal Government. CNSSI No. 1253 is a companion document to the NIST publications relevant to categorization and selection (i.e., NIST SP 800-53; NIST SP 800-37; NIST SP 800-60, Guide for Mapping Types of Information and Information Systems to Security Categories; and Federal Information Processing Standards [FIPS] 199, Standards for Security Categorization of Federal Information and Information Systems) and applies to all NSS. This Instruction also provides NSS-specific information on developing and applying overlays for the national security community and parameter values for NIST SP 800-53 security controls that are applicable to all NSS.

For NSS, where differences between the NIST documentation and this Instruction occur, this Instruction takes precedence.

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\(^1\) NIST SP 800-59, Guidelines for Identifying an Information System as a National Security System, provides guidelines developed in conjunction with the Department of Defense, including the National Security Agency, for identifying an information system as a national security system. The basis for these guidelines is the Federal Information Security Management Act of 2002 (Title III, Public Law 107-347, December 17, 2002), which defines the phrase “national security system,” and provides government-wide requirements for information security.
1.2 DIFFERENCES BETWEEN CNSSI NO. 1253 AND NIST PUBLICATIONS

The major differences between this Instruction and the NIST publications relevant to categorization and selection are below.

- This Instruction does not adopt the high water mark (HWM) concept from FIPS 200, *Minimum Security Requirements for Federal Information and Information Systems*, for categorizing information systems (see Section 2.1).

- The definitions for moderate and high impact are refined from those provided in FIPS 199 (see Section 3.1).

- The associations of confidentiality, integrity, and/or availability to security controls are explicitly defined in this Instruction (see Appendix D, Table D-2).

- The use of security control overlays is refined in this Instruction for the national security community (see Section 3.2 and Appendix F).
CHAPTER TWO
THE FUNDAMENTALS

This chapter presents the fundamental concepts associated with categorization and security control selection.

2.1 ADOPTION OF NIST SP 800-53 AND FIPS 199

The CNSS adopts NIST SP 800-53, as documented in this Instruction, for the national security community. The CNSS adopts FIPS 199, establishing the security category for NSS with three discrete components: one impact value (low, moderate, or high) for each of the three security objectives (confidentiality, integrity, and availability). Preserving the three discrete components, rather than using the FIPS 200 HWM, provides granularity in allocating security controls to baselines and reduces the need for subsequent tailoring. Table D-1 in Appendix D represents this in a 3-by-3 matrix.

2.2 ASSUMPTIONS RELATED TO SECURITY CONTROL BASELINES

Assumptions related to security control baselines are intended to represent a majority of federal information systems and serve as the basis to justify the allocation of controls in the baselines. While some federal information systems do not share these characteristics, it is more efficient for organizations to start with a baseline and tailor it to meet the needs of those information systems. Systems or environments that diverge from the assumptions listed below\(^2\) may require the application of an overlay (see Section 3.2.1) or tailoring of the selected controls and enhancements (see Section 3.2.2).

This Instruction accepts all assumptions from NIST SP 800-53 by adopting the NIST security control baselines as the foundation for the NSS baselines defined in Table D-1, in Appendix D. The NIST SP 800-53 assumptions are:

- Information systems are located in physical facilities.
- User data/information in organizational information systems is relatively persistent.
- Information systems are multi-user (either serially or concurrently) in operation.
- Some user data/information in organizational information systems is not shareable with other users who have authorized access to the same systems.
- Information systems exist in networked environments.
- Information systems are general purpose in nature.
- Organizations have the structure, resources, and infrastructure to implement the controls.

This Instruction also addresses assumptions specific to NSS through the NSS baselines. The NSS baselines are not intended to address these assumptions completely, but rather to a degree that represents the minimal protection that should be provided. The additional, NSS-specific assumptions are:

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\(^2\) Examples of systems that may diverge from the assumptions include systems not located in physical facilities, systems in resource constrained environments, and stand-alone systems.
Insider threats exist within NSS organizations.
Advanced persistent threats (APTs) are targeting NSS and may already exist within NSS organizations.
Additional best practices beyond those defined in the NIST baselines are necessary to protect NSS.

Conversely, there are also some possible situations that are specifically not addressed in the baselines. These include:

- Classified data/information is processed, stored, or transmitted by information systems;
- Selected data/information requires specialized protection based on federal legislation, directives, regulations, or policies; and
- Information systems need to communicate with other systems across different security domains.

2.3 RELATIONSHIP BETWEEN BASELINES AND OVERLAYS

NSS baselines, which are comprised of NIST SP 800-53 baselines coupled with the additional NIST SP 800-53 security controls required for NSS, and applicable overlays together constitute the initial security control set. NSS baselines represent the security controls necessary to address the impact on organizations or individuals should there be a loss of confidentiality, integrity, or availability, as reflected by the system’s security category. Overlays are intended to address additional factors (beyond impact) or diverge from the assumptions used to create the security control baselines (see Section 2.2), the use of which is determined by answering the applicability questions in each overlay.

Overlays are baseline independent, meaning that they can be applied to any NSS baseline (e.g., High-Moderate-Moderate or Low-Low-Low). As a result, there may be overlap of security controls between an NSS baseline and security controls identified in an overlay(s). Together, the combination of an NSS baseline and applicable overlay(s) represents the initial security control set prior to system-specific tailoring.

All security controls, regardless of source (baseline or overlays), may be tailored to address the risk associated with the specific system. All security controls, whether from a baseline or an overlay, are implemented in a system and tested during the security control assessment process.

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3 If the use of multiple overlays results in conflicts between the application and removal of security controls, see Section 3.2.1 for guidance.
CHAPTER THREE
THE CATEGORIZE AND SELECT PROCESSES

This chapter describes the processes of categorization and security control selection. Except where the guidance in this document differs from that in NIST SP 800-37, the national security community will implement the RMF Categorize and Select Steps consistent with NIST SP 800-37.

3.1 RMF STEP 1: CATEGORIZING INFORMATION SYSTEM

For NSS, the Security Categorization Task (RMF Step 1, Task 1-1) is a two-step process:

1. Determine impact values: (i) for the information type(s) processed, stored, transmitted, or protected by the information system; and (ii) for the information system.
2. Identify overlays that apply to the information system and its operating environment to account for additional factors (beyond impact) that influence the selection of security controls.

Within the national security community, it is understood that certain losses are to be expected when performing particular missions. Therefore, for NSS interpret the FIPS 199 amplification for the moderate and high potential impact values, as if the phrase “...exceeding mission expectations.” is appended to the end of the sentence in FIPS 199, Section 3.

3.1.1 Determine Impact Values for Information Types and the Information System

In preparation for selecting and specifying the appropriate security controls for organizational information systems and their respective environments of operation, organizations categorize their information and information system. To categorize the information and information system, complete the following activities:

1. Identify all the types of information processed, stored, or transmitted by an information system, determine their provisional security impact values, and adjust the information types’ provisional security impact values (see FIPS 199, NIST SP 800-60, Volume I, Section 4, and NIST SP 800-60, Volume II). If the information type is not identified in NIST SP 800-60 Volume II, document the information type consistent with the guidance in NIST SP 800-60, Volume I.
2. Determine the security category for the information system (see FIPS 199) and make any necessary adjustments (see NIST SP 800-60, Volume I, Section 4.4.2). The security category of a system should not be changed or modified to reflect management decisions.

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4 An information type is a specific category of information (e.g., privacy, medical, proprietary, financial, investigative, contractor-sensitive, security management), defined by an organization or, in some instances, by a public law, executive order, directive, policy, or regulation.
5 Controlled interfaces protect information that is processed, stored, or transmitted on interconnected systems. That information should be considered when categorizing the controlled interface.
6 For the confidentiality impact value, each organization should ensure that it categorizes specific information based on its potential worst case impact to i) its organization and ii) any and all other U.S. organizations with that specific information.
7 As appropriate, supplement NIST SP 800-60 with organization-defined guidance.
to allocate more stringent or less stringent security controls. The tailoring guidance in Section 3.2.2 should be used to address these issues.

3. Document the security category in the security plan.

### 3.1.2 Identify Applicable Overlays

Overlays identify additional factors (beyond impact) that influence the initial selection of security controls. As CNSS overlays are developed, they are published as attachments to Appendix F of this Instruction. Each overlay includes an applicability section with a series of questions used to identify whether or not the overlay is applicable to an information system. Review the questions in each overlay identified in Appendix F to determine whether or not the overlay applies. Document the applicable overlay(s) in the security plan.

### 3.2 RMF STEP 2: SELECT SECURITY CONTROLS

For NSS, Security Control Selection (RMF Step 2, Task 2-2) is a two-step process:

1. Select the initial security control set.
2. Tailor the initial security control set.

#### 3.2.1 Select the Initial Security Control Set

Once the security category of the information system is determined, organizations begin the security control selection process. To identify the initial security control set, complete the following activities:

1. Select the baseline security controls identified from Table D-1 in Appendix D corresponding to the security category of the system (i.e., the impact values determined for each security objective [confidentiality, integrity, and availability]).
2. Apply any overlay(s) identified as applicable during security categorization. If the use of multiple overlays results in conflicts between the application or removal of security controls, the authorizing official (or designee), in coordination with the information owner/steward, information system owner, and risk executive (function) resolves the conflict.
3. Document the initial security control set and the rationale for adding or removing security controls from the baseline by referencing the applicable overlay(s) in the security plan.

#### 3.2.2 Tailor the Initial Security Control Set

Organizations initiate the tailoring process to modify and align the initial control set to more closely account for conditions affecting the specific system (i.e., conditions related to organizational missions/business functions, information systems, or environments of operation). Organizations should remove security controls only as a function of specified, risk-based determinations. During the tailoring process, a risk assessment – either informal or formal – should be conducted. The results from a risk assessment provide information about the necessity
and sufficiency of security controls and enhancements during the tailoring process. To tailor the initial security control set, complete the following activities:

1. Tailor the initial security control set using Table D-2, Appendix E, and NIST SP 800-53, Section 3.2.  
2. Determine whether or not additional assurance–related controls are needed to increase the level of trustworthiness in the information system. If so, tailor the set of controls accordingly. (See NIST SP 800-53, Appendix E.)
3. Document in the security plan the relevant decisions made during the tailoring process, providing a sound rationale for those decisions.
4. Document and justify in the security plan any security controls from the initial security control set that cannot or will not be implemented in the system and for which no compensating control(s) will be substituted. At the discretion of the authorizing official, this information may be included in the plan of action and milestones.

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8All of the guidance in NIST SP 800-53, Section 3.2 applies to NSS except for the subsection titled “Security Objective-Related Considerations.” This subsection is specific to the NIST baselines and does not apply to NSS.
APPENDIX A
REFERENCES

LAWS, POLICIES, DIRECTIVES, REGULATIONS, MEMORANDA, STANDARDS, AND GUIDELINES

Appendix A provides the references used within CNSSI No. 1253.


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9 Includes errata update as of 7 May 2013.
### APPENDIX B
### GLOSSARY

#### COMMON TERMS AND DEFINITIONS

The terms in this document are defined in the NIST JTF documents and CNSSI No. 4009, except for those listed below.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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<tr>
<td>Initial Security Control Set</td>
<td>The set of security controls resulting from the combination of a baseline and applicable overlays prior to system specific tailoring.</td>
</tr>
<tr>
<td>NSS baselines</td>
<td>The combination of NIST 800-53 baselines (represented by an “X”) and the additional NIST SP 800-53 security controls required for NSS (represented by a “+”) that are applicable to NSS.</td>
</tr>
<tr>
<td>Provisional security impact values</td>
<td>The initial or conditional impact determinations made until all considerations are fully reviewed, analyzed, and accepted in the subsequent categorization steps by appropriate officials.</td>
</tr>
<tr>
<td>Security Control Extension</td>
<td>A statement, used in security control overlays, that extends the basic capability of a security control by specifying additional functionality, altering the strength mechanism, or adding or limiting implementation options.</td>
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APPENDIX C
ACRONYMS

COMMON ABBREVIATIONS

The acronyms and abbreviations used in this Instruction are included below. Control related acronyms included in the tables of appendices D and E are defined in NIST SP 800-53.

APT  Advanced Persistent Threat
CNSS  Committee on National Security Systems
CNSSI  Committee on National Security Systems Instruction
EO  Executive Order
FIPS  Federal Information Processing Standards
FISMA  Federal Information Security Management Act
HWM  High Water Mark
JTF  Joint Task Force Transformation Initiative Working Group
NIST  National Institute of Standards and Technology
NSS  National Security System
RMF  Risk Management Framework
P.L.  Public Law
SC  Security Category
SDLC  System Development Life Cycle
SP  Special Publication
U.S.  United States


APPENDIX D
SECURITY CONTROL TABLES

D.1 NSS SECURITY CONTROL BASELINES

Table D-1 uses a 3-by-3 matrix to identify applicability of security controls in the NIST SP 800-53, Revision 4 baselines for NSS. The matrix also identifies the additional security controls needed to protect NSS. This table represents the security controls applicable to NSS based on impact values.

The 3-by-3 matrix has nine columns showing three possible impact values (low, moderate, or high) for each of the three security objectives (confidentiality, integrity, or availability). The "X"s in the table reflect the NIST specifications by impact value (i.e., low, moderate, and high). The "+"s in the table reflect the additional CNSS specifications by impact value for all NSS. The association of security controls to security objectives is detailed in table D-2. A blank space in the table signifies the control was either not selected or not allocated to a particular security objective for the purposes of this Instruction. Controls that are designated as "withdrawn" indicate that they are no longer in the NIST SP 800-53 security control catalog. Changes to the security control catalog are under the authority of NIST.

Table D-1: NSS Security Control Baselines

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<th>ID</th>
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<th>Confidentiality</th>
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<th>Availability</th>
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<td>H</td>
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<td>AC-1</td>
<td>Access Control Policy and Procedures</td>
<td>X</td>
<td>X</td>
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<td>Account Management</td>
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<td>Removal of Temporary / Emergency Accounts</td>
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<td>X</td>
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<td>Account Management</td>
<td>Automated Audit Actions</td>
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D.2 ADDITIONAL SECURITY CONTROL INFORMATION

Table D-2 includes additional information about the NIST SP 800-53 security controls, including confidentiality, integrity, and availability associations, justifications for inclusion in NSS baselines, and potentially common/inheritable controls.

**Association of Confidentiality, Integrity, and Availability to NIST Security Controls:** The security objectives of confidentiality, integrity, and availability are defined in 44 United States Code (U.S.C.), Section 3542. The NIST SP 800-53 control baselines do not characterize security controls as having relationships with security objectives. Table D-2 associates the security controls from NIST SP 800-53, Revision 4, Appendix F with the three security objectives. These associations are a factor in the development of Table D-1 and can be used to inform tailoring decisions.

The primary approach and assumptions for security control associations are:

- Each control and/or enhancement is allocated based on whether or not the security objective(s) are the primary focus of the control and/or enhancement. If a security objective is only indirectly affected by a control and/or enhancement, it is not associated with that control and/or enhancement.
- The first control in each family covers policy and procedures for the entire family and in most instances they are allocated to all security objectives (confidentiality, integrity, and availability).
- The confidentiality and integrity objectives are largely focused on reading and writing (disclosure and modification).
- Cryptographic methods provide the ability to address disclosure (by encrypting information) and integrity (through the use of hashes and encrypted hashes). Therefore, the controls that address the use of cryptographic methods are typically allocated to confidentiality and integrity.
- The integrity objective is also concerned with the correctness of actions.
- The availability objective is primarily concerned with survivability and ensuring that the resources are there when needed.
- The availability objective is also concerned with consequence management and countering certain activities aimed at denial of service.

**Justification for NSS Baselines:** Controls selected to address the assumptions for NSS are each associated with a unique justification. Below is the summary of all justifications contained in Table D-2.

- **Insider Threat:** This control helps to counter/mitigate insider threats that exist within NSS organizations.
- **APT:** This control helps to counter/mitigate APTs that are targeting NSS and may already exist within NSS organizations.
- **NSS Best Practice:** This control supports additional best practices beyond those addressed in the NIST baselines and is necessary to protect national security systems.
- **Issuance:** This control supports current and draft CNSS issuances that have technical policy statements.
- **In support of and/or consistent with [Control(s)]:** This control supports and/or is consistent with other controls and control enhancements in NSS baselines.
- **NIST Assumption [Assumption]:** This control further addresses a NIST assumption.
- **In support of EO [number]:** This control supports an Executive Order.
- **Enables continuous monitoring:** This control supports the Senior Information Sharing and Safeguarding Steering Committee focus area of continuous monitoring.
- **Best Practice:** This control supports industry or general best security practices (these controls will be recommended to NIST for inclusion in the baselines).

**Potentially Common/Inheritable Controls:** The manner in which some controls are articulated in the control statements or supplemental guidance implies a potential for implementation as a common control. Table D-2 identifies security controls that may be potentially implemented as common controls. The final determination of which controls will be implemented as common controls will vary depending on the organization, mission/business process, or information system and its intended environment/deployment. The common controls identified in Table D-2 are based on the following assumptions:
• Common controls may be allocated at the organization, mission/business process, or information system level.
• Organizations have staff assigned to develop policies and procedures for the entire organization.
• Organizations have established services (e.g. enterprise, local) that implement technical security controls other information systems can inherit.
• Information systems are located in physical facilities that provide physical security services (e.g., guns, gates, and guards, climate control, fire suppression).
• Authorization boundaries have been established for controlled interfaces that do not include the interconnected information systems.
• A single authorization boundary will be established for a cloud-based enterprise.
• Authorization boundaries are established for some large information technology services such as Microsoft Windows domains that include all the information systems that are managed within the domain. While some information technology components within a Microsoft Windows domain can rely on other information technology components within the Microsoft Windows domain to satisfy some controls in a manner similar to inheritance, that distinction will be addressed in security control traceability matrices (SCTMs), rather than being described as commonly provided and inherited security controls.

Table D-2: Additional Security Control Information

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<td>PM-8</td>
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<td>PM-9</td>
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<td>PM-10</td>
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<td>PM-11</td>
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<td>PM-12</td>
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<td>PM-13</td>
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<td>PM-14</td>
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<td>PM-15</td>
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<tr>
<td>PM-16</td>
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</tbody>
</table>
APPENDIX E
SECURITY CONTROL PARAMETER VALUES

Table E-1 contains parameter values specified for NSS. These parameter values are minimum standards for NSS. Any deviations from these values should be documented in the security plan. If a control or control enhancement does not appear in Table E-1:

- It does not have an organizationally defined parameter;
- All parameters within a control are not appropriate to define for all NSS at the CNSS level; or
- It was withdrawn from NIST SP 800-53.

Table E-1: Security Control Parameter Values for NSS

<table>
<thead>
<tr>
<th>ID</th>
<th>Control Text</th>
<th>Defined Value for NSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. Not appropriate to define at the CNSS level for all organizations operating NSS.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy</td>
</tr>
<tr>
<td>AC-2</td>
<td>a. [Assignment: organization-defined information system account types]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>e. [Assignment: organization-defined personnel or roles]</td>
<td>e. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>f. [Assignment: organization-defined procedures or conditions]</td>
<td>f. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>j. [Assignment: organization-defined frequency]</td>
<td>j. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>AC-2(2)</td>
<td>[Selection: removes; disables]</td>
<td>Disables</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period for each type of account]</td>
<td>Not to exceed 72 hours.</td>
</tr>
<tr>
<td>AC-2(3)</td>
<td>[Assignment: organization-defined time period].</td>
<td>Not to exceed 90 days.</td>
</tr>
<tr>
<td>AC-2(5)</td>
<td>[Assignment: organization-defined time-period of expected inactivity or description of when to log out]</td>
<td>At the end of the users standard work period unless otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>AC-2(7)</td>
<td>(c) [Assignment: organization-defined actions]</td>
<td>(c) Disables (or revokes) privileged user account.</td>
</tr>
<tr>
<td>AC-2(13)</td>
<td>[Assignment: organization-defined time period]</td>
<td>30 minutes unless otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>AC-6(2)</td>
<td>[Assignment: organization-defined security functions or security-relevant information]</td>
<td>Privileged functions.</td>
</tr>
<tr>
<td>AC-6(8)</td>
<td>[Assignment: organization-defined software]</td>
<td>All</td>
</tr>
<tr>
<td>AC-7</td>
<td>a. [Assignment: organization-defined number]</td>
<td>3</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>15 minutes</td>
</tr>
<tr>
<td></td>
<td>b. [Selection: locks the account/node for an organization-defined time period]</td>
<td>b. locks the account/node for at least 15 minutes, or until unlocked by an administrator.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined delay algorithm]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>AC-7(2)</td>
<td>[Assignment: organization-defined mobile devices]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined purging/wiping requirements/techniques]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined number]</td>
<td>10</td>
</tr>
<tr>
<td>AC-9(3)</td>
<td>[Assignment: organization-defined security-related characteristics/parameters of the user's account]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>Since last successful logon</td>
</tr>
<tr>
<td>AC-10</td>
<td>[Assignment: organization-defined account and/or account type]</td>
<td>Non-Privileged maximum of 3 sessions</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined number]</td>
<td>Privileged maximum of 3 sessions</td>
</tr>
<tr>
<td>AC-11</td>
<td>a. [Assignment: organization-defined time period]</td>
<td>Not to exceed 30 minutes</td>
</tr>
<tr>
<td>AC-12(1)</td>
<td>(a) [Assignment: organization-defined information resources]</td>
<td>(a) All</td>
</tr>
<tr>
<td>AC-14</td>
<td>a. [Assignment: organization-defined user actions]</td>
<td>a. No user actions</td>
</tr>
<tr>
<td>AC-17(9)</td>
<td>[Assignment: organization-defined time period]</td>
<td>Low confidentiality or integrity impact: ...30 minutes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moderate confidentiality or integrity impact: ...20 minutes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High confidentiality or integrity impact: ...10 minutes</td>
</tr>
<tr>
<td>AC-18(1)</td>
<td>[Selection (one or more): users; devices]</td>
<td>Both users and devices as appropriate. See supplemental guidance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplemental Guidance: devices to wireless networks (e.g., Wi-Fi) and users to enterprise services.</td>
</tr>
<tr>
<td>AC-19(5)</td>
<td>[Selection: full-device encryption; container encryption]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined mobile devices]</td>
<td>All mobile devices authorized to connect to the organization's ISs.</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td>AC-20(3)</td>
<td>[Selection: restricts; prohibits]</td>
<td>Restricts</td>
</tr>
<tr>
<td>AC-22</td>
<td>d. [Assignment: organization-defined frequency]</td>
<td>d. Quarterly or as new information is posted.</td>
</tr>
<tr>
<td>AT-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>AT-2</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually if not otherwise defined in formal organization.</td>
</tr>
<tr>
<td>AT-3</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually if not otherwise defined in formal organization.</td>
</tr>
<tr>
<td>AT-3(1)</td>
<td>[Assignment: organization-defined personnel or roles]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organization policy or when sufficient changes are made to physical security systems.</td>
</tr>
<tr>
<td>AT-3(2)</td>
<td>[Assignment: organization-defined personnel or roles]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organization policy or when sufficient changes are made to physical security systems.</td>
</tr>
<tr>
<td>AT-3(4)</td>
<td>[Assignment: organization-defined indicators of malicious code]</td>
<td>Minimally but not limited to indicators of potentially malicious code in suspicious email.</td>
</tr>
<tr>
<td>AU-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>AU-2</td>
<td>a. [Assignment: organization-defined auditable events]</td>
<td>a. Authentication events:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) Logons (Success/Failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Logoffs (Success)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. File and Objects events:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) Create (Success/Failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Access (Success/Failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3) Delete (Success/Failure)</td>
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<tr>
<td></td>
<td></td>
<td>(4) Modify (Success/Failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(5) Permission Modification (Success/Failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(6) Ownership Modification (Success/Failure)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Writes/downloads to external devices/media</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(e.g., A-Drive, CD/DVD devices/printers)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Success/Failure)</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
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<tr>
<td></td>
<td>d. [Assignment: organization-defined audited events (the subset of the auditable events defined in AU-2 a.) along with the frequency of (or situation requiring) auditing for each identified event]</td>
<td>d. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>AU-2(3) [Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organizational policy</td>
</tr>
<tr>
<td></td>
<td>AU-5(1) [Assignment: organization-defined personnel, roles, and/or locations]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined percentage]</td>
<td>Max of 75%</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
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</tr>
<tr>
<td>AU-5(2)</td>
<td>[Assignment: organization-defined real-time period] &lt;br&gt; [Assignment: organization-defined personnel, roles, and/or locations] &lt;br&gt; [Assignment: organization-defined audit failure events requiring real-time alerts]</td>
<td>Not appropriate to define at the CNSS level for all NSS.  &lt;br&gt; Not appropriate to define at the CNSS level for all NSS.  &lt;br&gt; Minimally but not limited to: auditing software/hardware errors; failures in the audit capturing mechanisms; and audit storage capacity being reached or exceeded.</td>
</tr>
<tr>
<td>AU-6</td>
<td>a. [Assignment: organization-defined frequency] &lt;br&gt; [Assignment: organization-defined inappropriate or unusual activity] &lt;br&gt; b. [Assignment: organization-defined personnel or roles]</td>
<td>a. At least weekly (seven days)  &lt;br&gt; Not appropriate to define at the CNSS level for all NSS.  &lt;br&gt; b. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>AU-8(1)</td>
<td>(a) [Assignment: organization-defined frequency] &lt;br&gt; [Assignment: organization-defined authoritative time source] &lt;br&gt; (b) [Assignment: organization-defined time period]</td>
<td>(a) At least every 24 hours.  &lt;br&gt; (a) Not appropriate to define at the CNSS level for all NSS.  &lt;br&gt; (b) Greater than the organizationally defined granularity in AU-8.</td>
</tr>
<tr>
<td>AU-9(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>a. At least weekly.</td>
</tr>
<tr>
<td>AU-9(5)</td>
<td>[Selection (one or more): movement; deletion] &lt;br&gt; [Assignment: organization-defined audit information]</td>
<td>Not appropriate to define at the CNSS level for all NSS.  &lt;br&gt; Any security related audit information.</td>
</tr>
<tr>
<td>AU-11</td>
<td>[Assignment: organization-defined time period consistent with records retention policy]</td>
<td>A minimum of 5 years for Sensitive Compartmented Information and Sources And Methods Intelligence information  &lt;br&gt; A minimum of 1 year for all other information (Unclassified through Collateral Top Secret).</td>
</tr>
<tr>
<td>AU-11(1)</td>
<td>[Assignment: organization-defined measures]</td>
<td>A retention of technology to access audit records for the duration of the required retention period.</td>
</tr>
<tr>
<td>AU-12</td>
<td>a. [Assignment: organization-defined information system components] &lt;br&gt; b. Assignment: organization-defined personnel or roles</td>
<td>a. All information systems and network components.  &lt;br&gt; b. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>AU-12(1)</td>
<td>[Assignment: organization-defined information system components] &lt;br&gt; [Assignment: organization-defined level of tolerance for relationship between time stamps of individual records in the audit trail]</td>
<td>Not appropriate to define at the CNSS level for all NSS.  &lt;br&gt; In accordance with tolerance defined in AU-8.</td>
</tr>
<tr>
<td>AU-13(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CA-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>CA-2</td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually, or as stipulated in the organization's continuous monitoring program.</td>
</tr>
<tr>
<td></td>
<td>d. [Assignment: organization-defined individuals or roles]</td>
<td>d. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>CA-3</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually.</td>
</tr>
<tr>
<td>CA-3(1)</td>
<td>[Assignment: organization-defined unclassified, national security system]</td>
<td>All unclassified NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined boundary protection device]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>CA-3(5)</td>
<td>[Selection: allow-all, deny-by-exception; deny-all, permit-by-exception]</td>
<td>Deny-all, permit-by-exception.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined information systems] to connect to external information systems.</td>
<td>All systems.</td>
</tr>
<tr>
<td>CA-5</td>
<td>[Assignment: organization-defined frequency]</td>
<td>b. At least quarterly.</td>
</tr>
<tr>
<td>CA-6</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. If the organization and/or system is adequately covered by a continuous monitoring program the Security Authorization may be continuously updated: If not; at least every three (3) years, when significant security breaches occur, whenever there is a significant change to the system, or to the environment in which the system operates.</td>
</tr>
<tr>
<td>CM-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>CM-2(1)</td>
<td>(a) [Assignment: organization-defined frequency]</td>
<td>(a) At least annually.</td>
</tr>
<tr>
<td></td>
<td>(b) [Assignment organization-defined circumstances]</td>
<td>(b) Significant or security relevant changes or security incidents occur.</td>
</tr>
<tr>
<td>CM-2(3)</td>
<td>[Assignment: organization-defined previous versions of baseline configurations of the information system]</td>
<td>At least two.</td>
</tr>
<tr>
<td>CM-3</td>
<td>e. [Assignment: organization-defined time period]</td>
<td>e. 1 year or two change cycles of baseline configurations as defined in CM-2 (3), whichever is longer.</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>g.</td>
<td>g. [Assignment: organization-defined configuration change control element (e.g., committee, board)] [Selection (one or more):] [Assignment: organization-defined frequency] [Assignment: organization-defined configuration change conditions]</td>
<td>g. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>CM-3(4)</td>
<td>[Assignment: organization-defined configuration change control element]</td>
<td>The configuration change control element defined in CM-3 g.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplemental guidance: The information security representative shall be a voting member.</td>
</tr>
<tr>
<td>CM-3(6)</td>
<td>[Assignment: organization-defined security safeguards]</td>
<td>All security safeguards that rely on cryptography</td>
</tr>
<tr>
<td>CM-5(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>Every 90 days or more frequently as the organization defines for high integrity systems AND at least annually or more frequently as the organization defines for low integrity and moderate integrity systems.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When there is an incident or when planned changes have been performed.</td>
</tr>
<tr>
<td>CM-5(3)</td>
<td>[Assignment: organization-defined software and firmware components]</td>
<td>All digitally signed software and firmware products.</td>
</tr>
<tr>
<td>CM-5(5)</td>
<td>(b) [Assignment: organization-defined frequency]</td>
<td>(b) At least annually.</td>
</tr>
<tr>
<td>CM-6</td>
<td>a. [Assignment: organization-defined security configuration checklists]</td>
<td>a. Organizationally approved guides such as DoD SRGs, STIGs, or NSA SCGs; if such a reference document is not available, the following are acceptable in descending order as available: (1) Commercially accepted practices (e.g., SANS) (2) Independent testing results (e.g., ICSA) or (3) Vendor literature.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined information system components]</td>
<td>c. All configurable information system components.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined operational requirements]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>CM-6(1)</td>
<td>[Assignment: organization-defined information system components]</td>
<td>Not appropriate to define at the CNSS level for all NSS but minimally for all IA enabled or related components.</td>
</tr>
<tr>
<td>CM-7(1)</td>
<td>(a) [Assignment: organization-defined frequency]</td>
<td>(a) At least annually or as system changes or incidents occur.</td>
</tr>
<tr>
<td></td>
<td>(b) [Assignment: organization-defined functions,]</td>
<td>(b) All functions, ports, protocols, and services</td>
</tr>
<tr>
<td>ID</td>
<td>Control Text</td>
<td>Defined Value for NSS</td>
</tr>
<tr>
<td>----</td>
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</tr>
<tr>
<td></td>
<td>ports, protocols, and services within the information system deemed to be unnecessary and/or nonsecure</td>
<td>within the information system deemed to be unnecessary and/or nonsecure.</td>
</tr>
<tr>
<td>CM-7(4)</td>
<td>(a) [Assignment: organization-defined software programs not authorized to execute on the information system]</td>
<td>(a) Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>(c) [Assignment: organization-defined frequency]</td>
<td>(c) At least annually.</td>
</tr>
<tr>
<td>CM-7(5)</td>
<td>(a) [Assignment: organization-defined software programs authorized to execute on the information system]</td>
<td>(a) Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>(c) [Assignment: organization-defined frequency]</td>
<td>(c) At least annually.</td>
</tr>
<tr>
<td>CM-8</td>
<td>a.4. [Assignment: organization-defined information deemed necessary to achieve effective information system component accountability]</td>
<td>a.4. Minimally but not limited to: hardware specifications (manufacturer, type, model, serial number, physical location), software and software license information, information system/component owner, and for a networked component/device, the machine name.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually.</td>
</tr>
<tr>
<td>CM-8(3)</td>
<td>(a) [Assignment: organization-defined frequency]</td>
<td>(a) Continuously.</td>
</tr>
<tr>
<td></td>
<td>(b) [Selection (one or more): disables network access by such components; isolates the components; notifies [Assignment: organization-defined personnel or roles]]</td>
<td>(b) Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined personnel or roles]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>CM-8(4)</td>
<td>[Selection (one or more): name; position; role]</td>
<td>Minimally position or role.</td>
</tr>
<tr>
<td>CM-8(9)</td>
<td>(a) [Assignment: organization-defined acquired information system components]</td>
<td>All acquired information system components. See supplemental guidance.</td>
</tr>
<tr>
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<td></td>
<td>Supplemental guidance: this is part of Security Authorization, &quot;authorization boundary&quot;.</td>
</tr>
<tr>
<td>CM-11</td>
<td>a. [Assignment: organization-defined policies]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined methods]</td>
<td>b. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>CP-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>CP-2</td>
<td>a.6. [Assignment: organization-defined personnel or roles]</td>
<td>a.6. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
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<tr>
<td></td>
<td>b. [Assignment: organization-defined key contingency personnel (identified by name and/or by role) and organizational elements]</td>
<td>b. Key personnel or roles and organizational elements identified in the contingency plan.</td>
</tr>
<tr>
<td></td>
<td>d. [Assignment: organization-defined frequency]</td>
<td>d. At least annually unless otherwise defined in organizational policy.</td>
</tr>
<tr>
<td></td>
<td>f. [Assignment: organization-defined key contingency personnel (identified by name and/or by role) and organizational elements]</td>
<td>f. Key personnel and organizational elements identified in the contingency plan.</td>
</tr>
<tr>
<td>CP-2(3)</td>
<td>[Assignment: organization-defined time period]</td>
<td>A time period as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-2(4)</td>
<td>[Assignment: organization-defined time period]</td>
<td>A time period as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-3</td>
<td>a. [Assignment: organization-defined time period]</td>
<td>a. 10 working days.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. Annually or as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-4</td>
<td>a. [Assignment: organization-defined frequency]</td>
<td>a. At a frequency as defined in the contingency plan.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined tests]</td>
<td>Tests as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-7</td>
<td>a. [Assignment: organization-defined information system operations]</td>
<td>a. Information system operations as defined in the contingency plan.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period consistent with recovery time and recovery point objectives]</td>
<td>A time period as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-8</td>
<td>[Assignment: organization-defined information system operations]</td>
<td>Information system operations as defined in the contingency plan.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>A time period as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-9</td>
<td>a. [Assignment: organization-defined frequency consistent with recovery time and recovery point objectives]</td>
<td>a. At least weekly or as defined in the contingency plan.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined frequency consistent with recovery time and recovery point objectives]</td>
<td>b. At least weekly or as defined in the contingency plan.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency consistent with recovery time and recovery point objectives]</td>
<td>c. When created, received, updated, or as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-9(1)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least monthly or as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-9(3)</td>
<td>[Assignment: organization-defined critical information system software and other security-related information]</td>
<td>Not appropriate to define at the CNSS level for all NSS but as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-9(5)</td>
<td>[Assignment: organization-defined time period and transfer rate consistent with the recovery time and recovery point objectives]</td>
<td>Not appropriate to define at the CNSS level for all NSS but as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-9(7)</td>
<td>[Assignment: organization-defined backup]</td>
<td>Not appropriate to define at the CNSS level for all NSS but as defined in the contingency plan.</td>
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<tr>
<td>CP-10(4)</td>
<td>[Assignment: organization-defined restoration time-periods]</td>
<td>Not appropriate to define at the CNSS level for all NSS but as defined in the contingency plan.</td>
</tr>
<tr>
<td>CP-11</td>
<td>[Assignment: organization-defined alternative communications protocols]</td>
<td>Alternate communications protocols as defined in the contingency plan.</td>
</tr>
<tr>
<td>IA-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. Identification and authentication policy [Assignment: organization-defined frequency]; and</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. Identification and authentication procedures [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>IA-4</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
</tbody>
</table>
|       | d.[Assignment: organization-defined time period] | d. At least a year for individuals, groups, roles...Not appropriate to define for device identifiers (e.g., media access control (MAC), Internet protocol (IP) addresses, or device-unique token identifiers."
|       | e. [Assignment: organization-defined time period of inactivity] | e. Not to exceed 35 days for individuals, groups, roles. Not appropriate to define for device identifiers (e.g., media access control (MAC), Internet protocol (IP) addresses, or device-unique token identifiers."
<p>| IA-5  | g. [Assignment: organization-defined time period by authenticator type] | g. Not to exceed 180 days for passwords; ...Not appropriate to define at the CNSS level for all NSS using other authenticator types. |
| IA-5(1) | (a) [Assignment: organization-defined requirements for case sensitivity, number of characters, mix of upper-case letters, lower-case letters, numbers, and special characters, including minimum requirements for each type] | (a) A case sensitive 12-character mix of upper case letters, lower case letters, numbers and special characters in including at least one of each. |
|       | (b) [Assignment: organization-defined number] | (b) 50% of the characters. |
|       | (d) [Assignment: organization-defined numbers for lifetime minimum, lifetime maximum] | d) 24 hours minimum and 180 days maximum. |
|       | (e) [Assignment: organization-defined number] | (e) Minimum of 10; (does not apply to one time use passwords). |
| IA-5(4) | [Assignment: organization-defined requirements] | Requirements as defined in IA-5 (1). |
| IA-5(8) | [Assignment: organization-defined security safeguards] | Precautions including advising users that they must not use the same password for any of the following: Domains of differing classification levels; More than one domain of a classification level (e.g., internal agency network and Intelink); More than one privilege level (e.g., user, administrator). |</p>
<table>
<thead>
<tr>
<th>ID</th>
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<tbody>
<tr>
<td>IA-5(13)</td>
<td>[Assignment: organization-defined time period].</td>
<td>1 hour.</td>
</tr>
<tr>
<td>IR-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>IR-2</td>
<td>a. [Assignment: organization-defined time period]</td>
<td>a. 30 working days.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually.</td>
</tr>
<tr>
<td>IR-3</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined tests]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>IR-4(8)</td>
<td>[Assignment: organization-defined external organizations]</td>
<td>The appropriate CIRT/CERT (such as US-CERT, DoD CERT, IC CERT)</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined incident information]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>IR-6</td>
<td>a. [Assignment: organization-defined time period]</td>
<td>a. 2 hours if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined authorities]</td>
<td>b. The appropriate Agency CIRT/CERT (see IR-4(8)).</td>
</tr>
<tr>
<td>IR-8</td>
<td>a.8. [Assignment: organization-defined personnel or roles]</td>
<td>a.8. CISO/SISO if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined incident response personnel (identified by name and/or by role) and organizational elements]</td>
<td>b. All personnel with a role or responsibility for implementing the incident response plan.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually (incorporating lessons learned from past incidents).</td>
</tr>
<tr>
<td></td>
<td>e. [Assignment: organization-defined incident response personnel (identified by name and/or by role) and organizational elements]</td>
<td>e. All personnel with a role or responsibility for implementing the incident response plan.</td>
</tr>
<tr>
<td>IR-9(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>Annually.</td>
</tr>
<tr>
<td>MA-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>MA-4(1)</td>
<td>(a) [Assignment: organization-defined audit events]</td>
<td>(a) As defined in the organizations formal audit policy (AU-1).</td>
</tr>
<tr>
<td>MP-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
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<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>MP-2</td>
<td>[Assignment: organization-defined types of digital and/or non-digital media]</td>
<td>All types of digital and/or non-digital media containing information not cleared for public release.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined personnel or roles].</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>MP-6(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>MP-6(3)</td>
<td>[Assignment: organization-defined circumstances requiring sanitization of portable storage devices]</td>
<td>Not appropriate to define at the CNSS level for all NSS, however the use of nondestructive sanitization techniques are for the elimination of malicious code, not removal of approved information or software.</td>
</tr>
<tr>
<td>MP-8(2)</td>
<td>[Assignment: organization-defined tests]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PE-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b. 1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
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<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PE-2</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually.</td>
</tr>
<tr>
<td>PE-6</td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least every 90 days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined events or potential indications of events]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>PE-6(3)</td>
<td>[Assignment: organization-defined operational areas]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>At least 90 days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PE-8</td>
<td>a. [Assignment: organization-defined time period]</td>
<td>a. At least one year.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least every 90 days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PE-13(4)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>60 days.</td>
</tr>
<tr>
<td>PE-14</td>
<td>a. [Assignment: organization-defined acceptable levels]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
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<tr>
<td>PL-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. continuously.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
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<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PL-2</td>
<td>b. [Assignment: organization-defined personnel or roles]</td>
<td>b. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually or when required due to system changes or modifications.</td>
</tr>
<tr>
<td>PL-4</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PL-7</td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually or when changes to the information system or its environment warrant.</td>
</tr>
<tr>
<td>PL-8</td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually or when changes to the information system or its environment warrant.</td>
</tr>
<tr>
<td>PS-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PS-2</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually or when the position description is updated or when the position is vacated.</td>
</tr>
<tr>
<td>PS-4</td>
<td>a. [Assignment: organization-defined time period]</td>
<td>a. If voluntary: As soon as possible, not to exceed 5 working days.</td>
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<td></td>
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<td>If involuntary: Within same day as termination.</td>
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<td>c. [Assignment: organization-defined information security topics]</td>
<td>c. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>f. [Assignment: organization-defined personnel or roles]</td>
<td>f. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>As soon as possible, not to exceed 1 working day.</td>
</tr>
<tr>
<td>PS-5</td>
<td>b. [Assignment: organization-defined transfer or reassignment actions]</td>
<td>b. Reassignment actions to ensure all system access no longer required (need to know) are removed or disabled.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period following the formal transfer action]</td>
<td>b. 10 working days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>d. [Assignment: organization-defined personnel or roles]</td>
<td>d. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>Not appropriate to define at the CNSS level for</td>
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<tr>
<td>PS-6</td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>c.2. [Assignment: organization-defined frequency]</td>
<td>c.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>PS-7</td>
<td>d. [Assignment: organization-defined personnel or roles]</td>
<td>d. Organizational Security Manager.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined time period]</td>
<td>As soon as possible, not to exceed 1 working day.</td>
</tr>
<tr>
<td>RA-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>RA-3</td>
<td>b. [Selection: security plan; risk assessment report;]</td>
<td>b. Not appropriate to define at the CNSS level for all NSS.</td>
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<tr>
<td></td>
<td>[Assignment: organization-defined document]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>d. [Assignment: organization-defined personnel or roles]</td>
<td>d. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>e. [Assignment: organization-defined frequency]</td>
<td>e. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>RA-5</td>
<td>a. [Assignment: organization-defined frequency and/or randomly in accordance with organization-defined process]</td>
<td>a. At least every 120 days.</td>
</tr>
<tr>
<td></td>
<td>d. [Assignment: organization-defined response times]</td>
<td>d. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>e. [Assignment: organization-defined personnel or roles]</td>
<td>e. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>RA-5(2)</td>
<td>[Selection (one or more): [Assignment: organization-defined frequency]; prior to a new scan; when new vulnerabilities are identified and reported].</td>
<td>Within 24 hours prior to running scans.</td>
</tr>
<tr>
<td>RA-5(5)</td>
<td>[Assignment: organization-identified information system components]</td>
<td>Authorized vulnerability scanning components.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined vulnerability scanning activities]</td>
<td>Authorization by the CISO/SISO or designate.</td>
</tr>
<tr>
<td>SA-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b. 1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
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<td>ID</td>
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</tr>
<tr>
<td>SA-9(1)</td>
<td>(b) [Assignment: organization-defined personnel or roles].</td>
<td>(b) Chief Information Officer.</td>
</tr>
<tr>
<td>SA-9(2)</td>
<td>[Assignment: organization-defined external information system services]</td>
<td>All external information systems and services.</td>
</tr>
<tr>
<td>SA-12</td>
<td>[Assignment: organization-defined security safeguards]</td>
<td>Security safeguards in accordance with CNSSD No. 505, Supply Chain Risk Management.</td>
</tr>
<tr>
<td>SC-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined frequency]</td>
<td>b.2. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>SC-7(4)</td>
<td>(e) [Assignment: organization-defined frequency]</td>
<td>(e) At least every 180 days.</td>
</tr>
<tr>
<td>SC-7(8)</td>
<td>[Assignment: organization-defined internal communications traffic]</td>
<td>All internal communications traffic that may be proxied, except traffic specifically exempted by the Authorizing Official or organizational policy.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined external networks]</td>
<td>All untrusted networks outside the control of the organization.</td>
</tr>
<tr>
<td>SC-7(12)</td>
<td>[Assignment: organization-defined host-based boundary protection mechanisms]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined information system components]</td>
<td>All system components capable of supporting host-based boundary protection mechanisms such as but not limited to servers, workstations, and those subject to operation outside of the organizational boundary(i.e., laptops and other mobile devices).</td>
</tr>
<tr>
<td>SC-7(14)</td>
<td>[Assignment: organization-defined managed interfaces]</td>
<td>Any managed interface that crosses security domains or connects to an external network; such as but not limited to: cross domain solutions (SABI, TSABI), a network boundary with a WAN, a partner network, or the Internet.</td>
</tr>
<tr>
<td>SC-7(19)</td>
<td>[Assignment: organization-defined communication clients]</td>
<td>All.</td>
</tr>
<tr>
<td>SC-8(1)</td>
<td>[Selection (one or more): prevent unauthorized disclosure of information; detect changes to information]</td>
<td>Prevent unauthorized disclosure of, and detect changes to, information. Alternative physical safeguards such as keeping transmission within physical areas rated IAW the sensitivity of the information or within a Protected Distribution System (PDS) when traversing areas not approved for the sensitivity of the information.</td>
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<tr>
<td>SC-8(2)</td>
<td>[Selection (one or more): confidentiality; integrity]</td>
<td>Confidentiality and integrity.</td>
</tr>
<tr>
<td>SC-10</td>
<td>[Assignment: organization-defined time period]</td>
<td>No more than one hour.</td>
</tr>
<tr>
<td>SC-11</td>
<td>[Assignment: organization-defined security functions to include at a minimum, information system authentication and re-authentication]</td>
<td>Information system authentication and re-authentication; functions other than the minimum required are not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>SC-12</td>
<td>[Assignment: organization-defined requirements for key generation, distribution, storage, access, and destruction]</td>
<td>For unclassified NSS, NIST FIPS-compliant; and/or for classified NSS, see the Classified Information Overlay; processes/requirements for key generation, distribution, storage, access, and destruction.</td>
</tr>
<tr>
<td>SC-12(2)</td>
<td>[Selection: NIST FIPS-compliant; NSA-approved]</td>
<td>NIST FIPS-compliant for unclassified data, and/or See Classified Information Overlay for classified data.</td>
</tr>
<tr>
<td>SC-15</td>
<td>a. [Assignment: organization-defined exceptions where remote activation is to be allowed]</td>
<td>Dedicated VTC suites located in approved VTC locations that are centrally managed.</td>
</tr>
<tr>
<td>SC-15(4)</td>
<td>[Assignment: organization-defined online meetings and teleconferences]</td>
<td>All VTC and all IP based online meetings and conferences (excludes audio only teleconferences using traditional telephony).</td>
</tr>
<tr>
<td>SC-17</td>
<td>[Assignment: organization-defined certificate policy]</td>
<td>The certificate policy defined in CNSSP No. 25.</td>
</tr>
</tbody>
</table>
| SC-18(2) | [Assignment: organization-defined mobile code requirements]                 | The following requirements: (a) Emerging mobile code technologies that have not undergone a risk assessment and been assigned to a Risk Category by the CIO are not used.  
 (b) Category 1 mobile code is signed with a code signing certificate; use of unsigned Category 1 mobile code is prohibited; use of Category 1 mobile code technologies that cannot block or disable unsigned mobile code (e.g., Windows Scripting Host) is prohibited.  
 (c) Category 2 mobile code which executes in a constrained environment without access to system resources (e.g., Windows registry, file system, system parameters, and network connections to other than the originating host) may be used.  
 (d) Category 2 mobile code that does not execute in a constrained environment may be used when obtained from a trusted source over an assured channel (e.g., SIPRNet, SSL connection, S/MIME, code is signed with an approved code signing certificate).  
 (e) Category 3 (mobile code having limited |
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</thead>
<tbody>
<tr>
<td>SC-18(3)</td>
<td>[Assignment: organization-defined unacceptable mobile code]</td>
<td>All unacceptable mobile code such as:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(a) Emerging mobile code technologies that have not undergone a risk assessment and been assigned to a Risk Category by the CIO.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(b) unsigned Category 1 mobile code and Category 1 mobile code technologies that cannot block or disable unsigned mobile code (e.g., Windows Scripting Host).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(d) Category 2 mobile code not obtained from a trusted source over an assured channel (e.g., SIPRNet, SSL connection, S/MIME, code is signed with an approved code signing certificate).</td>
</tr>
<tr>
<td>SC-18(4)</td>
<td>[Assignment: organization-defined software applications]</td>
<td>Software applications and such as but not limited to email, scriptable document/file editing applications that support documents with embedded code (e.g., MS Office applications/documents), etc.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined actions]</td>
<td>Prompting the user for permission.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined types of failures]</td>
<td>All types of failures.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined system state information]</td>
<td>Information necessary to determine cause of failure and to return to operations with least disruption to mission/business processes.</td>
</tr>
<tr>
<td>SC-28</td>
<td>[Selection (one or more): confidentiality; integrity]</td>
<td>Confidentiality and integrity.</td>
</tr>
<tr>
<td></td>
<td>Assignment: organization-defined information at rest</td>
<td>All information not cleared for public release.</td>
</tr>
<tr>
<td>SC-28(1)</td>
<td>[Assignment: organization-defined information]</td>
<td>All information not cleared for public release.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined information system components]</td>
<td>System components outside of organization facilities.</td>
</tr>
<tr>
<td>SC-43</td>
<td>a. [Assignment: organization-defined information system components]</td>
<td>All information system components (through the use of an acceptable use agreement).</td>
</tr>
<tr>
<td>SI-1</td>
<td>a. [Assignment: organization-defined personnel or roles]</td>
<td>a. All personnel.</td>
</tr>
<tr>
<td></td>
<td>b.1. [Assignment: organization-defined frequency]</td>
<td>b.1. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b.2. [Assignment: organization-defined]</td>
<td>b.2. At least annually if not otherwise defined in</td>
</tr>
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</tr>
<tr>
<td>SI-2</td>
<td>c. [Assignment: organization-defined time period]</td>
<td>c. 30 days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>SI-2(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least once a quarter.</td>
</tr>
<tr>
<td>SI-2(6)</td>
<td>[Assignment: organization-defined software and firmware components]</td>
<td>All upgraded/replaced software and firmware components that are no longer required for operation when possible.</td>
</tr>
<tr>
<td>SI-3</td>
<td>c.1. [Assignment: organization-defined frequency]</td>
<td>c.1. At least weekly.</td>
</tr>
<tr>
<td></td>
<td>[Selection (one or more); endpoint; network entry/exit points]</td>
<td>Endpoints and network entry/exit points.</td>
</tr>
<tr>
<td></td>
<td>2. [Selection (one or more): block malicious code; quarantine malicious code; send alert to administrator;]</td>
<td>c2. Block and quarantine malicious code then send an alert to the system administrator.</td>
</tr>
<tr>
<td>SI-3(8)</td>
<td>[Assignment: organization-defined unauthorized operating system commands]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined information system hardware components]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Selection (one or more): issues a warning; audits the command execution; prevents the execution of the command</td>
<td>Audits the command execution and prevents the execution of the command.</td>
</tr>
<tr>
<td>SI-4(4)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>Continuously.</td>
</tr>
<tr>
<td>SI-4(9)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least monthly.</td>
</tr>
<tr>
<td></td>
<td>c. [Selection (one or more): [Assignment: organization-defined personnel or roles]</td>
<td>c. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined elements within the organization]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined external organizations]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>SI-6</td>
<td>a. [Assignment: organization-defined security functions]</td>
<td>a. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>b. [Selection (one or more): [Assignment: organization-defined system transitional states]; upon command by user with appropriate privilege]</td>
<td>b. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined frequency]]</td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
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<td></td>
<td>all NSS.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined personnel or roles]</td>
<td>c. Minimally notifies system/security administrator.</td>
</tr>
<tr>
<td></td>
<td>d. [Selection (one or more): shuts the information system down; restarts the information system] [Assignment: organization-defined alternative action(s)]</td>
<td>d. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>SI-6(3)</td>
<td>[Assignment: organization-defined personnel or roles].</td>
<td>Responsible security personnel (e.g., AO, SISO, ISSO, ISSM, etc.).</td>
</tr>
<tr>
<td>SI-7(9)</td>
<td>[Assignment: organization-defined devices]</td>
<td>All devices capable of verification of the boot process.</td>
</tr>
<tr>
<td>SI-7(13)</td>
<td>[Assignment: organization-defined personnel or roles]</td>
<td>Authorizing Official.</td>
</tr>
<tr>
<td>SI-7(15)</td>
<td>[Assignment: organization-defined software or firmware components]</td>
<td>All software and firmware from vendors/sources that provide cryptographic mechanisms to enable the validation of code authenticity and integrity.</td>
</tr>
<tr>
<td>SI-10</td>
<td>[Assignment: organization-defined information inputs]</td>
<td>All inputs to web/application servers, database servers, and any system or application input that might receive a crafted exploit toward executing some code or buffer overflow.</td>
</tr>
<tr>
<td>PM-1</td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually if not otherwise defined informal organizational policy.</td>
</tr>
<tr>
<td>PM-9</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>c. At least annually if not otherwise defined informal organizational policy.</td>
</tr>
</tbody>
</table>

**NIST SP 800-53 Rev4, Appendix J, Privacy Control Catalog**

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<tr>
<th>ID</th>
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<tbody>
<tr>
<td>AR-1</td>
<td>c. [Assignment: organization-defined allocation of budget and staffing]</td>
<td>c. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td></td>
<td>f. [Assignment: organization-defined frequency, at least biennially]</td>
<td>f. At least biennially if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>AR-4</td>
<td>[Assignment: organization-defined frequency]</td>
<td>Continuously.</td>
</tr>
<tr>
<td>AR-5</td>
<td>b. [Assignment: organization-defined frequency, at least annually]</td>
<td>b. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>[Assignment: organization-defined frequency, at least annually]</td>
<td>At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined frequency, at least annually]</td>
<td>c. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>DI-1</td>
<td>c. [Assignment: organization-defined frequency]</td>
<td>At least every 180 days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>DI-1(2)</td>
<td>[Assignment: organization-defined frequency]</td>
<td>At least every 180 days if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>DM-1</td>
<td>c. [Assignment: organization-defined frequency, at least annually]</td>
<td>c. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td>DM-2</td>
<td>a. [Assignment: organization-defined time]</td>
<td>a. In accordance with National Archives and</td>
</tr>
<tr>
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<tr>
<td></td>
<td>period]</td>
<td>Records Administration (NARA).</td>
</tr>
<tr>
<td></td>
<td>c. [Assignment: organization-defined techniques or methods]</td>
<td>c. Not appropriate to define at the CNSS level for all NSS.</td>
</tr>
<tr>
<td>IP-4(1)</td>
<td>[Assignment: organization-defined time period]</td>
<td>2 business days.</td>
</tr>
<tr>
<td>SE-1</td>
<td>a. [Assignment: organization-defined frequency]</td>
<td>a. At least annually if not otherwise defined in formal organizational policy.</td>
</tr>
<tr>
<td></td>
<td>b. [Assignment: organization-defined frequency]</td>
<td>b. At least annually if not otherwise defined in formal organizational policy.</td>
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</table>
APPENDIX F
OVERLAYS

GUIDANCE FOR SPECIAL CONDITIONS AND COMMUNITY-WIDE USE

Overlays are a specification of security controls, control enhancements, supplemental guidance, and other supporting information intended to complement (and further refine) security control baselines resulting in the initial security control set. CNSS uses overlays to build consensus across communities of interest and identify relevant security controls that have broad-based support for very specific circumstances, situations, and/or conditions that differ from the assumptions in Section 2.1. Each overlay provides guidance to determine when it is applicable. An overlay provides security control specifications that are directly applicable to its subject matter.  

Governance and Publication of Overlays

CNSS reviews and publishes all overlays that will be attachments to CNSSI No. 1253 Appendix F. CNSS may also be involved in the development of such overlays.

The CNSS Safeguarding Working Group (SWG) manages the overlay initiation, development, approval, publication, and maintenance processes. As new overlays are published or existing overlays are revised, this appendix will be administratively updated. CNSS provides downloadable copies of the approved and published overlays, as well as the template to be used in overlay development (see Attachment 1) and overlay development guidance. Overlays marked “Unclassified//For Official Use Only” (UNCLASSIFIED//FOUO) are available on the restricted CNSS website.

Attachments to Appendix F (Formerly Appendix K): CNSS Published Overlays

Attachment 1: Overlay Template (1 Aug 13)
Attachment 2: Space Platform Overlay (6 Jun 13)
Attachment 3: Cross Domain Solution Overlay (27 Sep 13)
Attachment 4: Intelligence Overlay (23 Oct 12) (Document is U//FOUO)
Attachment 5: Classified Information Overlay (9 May 14)
Attachment 6: Privacy Overlay (20 Apr 15)

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11 Overlays are baseline independent; therefore, they do not consider whether or not a control is selected for any particular baseline. In applying overlays in conjunction with a selected baseline, there may be many “duplicate” controls. These controls do not have to be implemented twice; however, an overlay provides additional specifications relevant to its subject matter and a justification for the tailoring process.

12 Overlays are published on the CNSS website with the CNSS Instructions, at: https://www.cnss.gov.