

DIVISION OF INFORMATION SECURITY (DIS)

Information Security Policy – Asset Management

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Revision History

Update this table every time a new edition of the document is published

Date	Authored by	Title	Ver.	Notes
9/25/2013	Division of Information Security		1.0	Initial draft
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INTRODUCTION

Part 1. Preface

The South Carolina Information Security (INFOSEC) Program consists of information security policies that establish a common information security framework across South Carolina State Government Agencies and Institutions.

Together these policies provide a framework for developing an agency's information security program. An effective information security program improves the State's security posture and aligns information security with an agency's mission, goals, and objectives.

Part 2. Organizational and Functional Responsibilities

The policy sets the minimum level of responsibility for the following individuals and/or groups:

- Division of Information Security
- Agency/Institution
- Employees, Contractors, and Third Parties

(A) Division of Information Security

The duties of the Division of Information Security are:

- Developing, maintaining, and revising information security policies, procedures, and standards
- Providing technical assistance, advice, and recommendations concerning information security matters

(B) Agency/Institution

Information security is an agency/institution responsibility shared by all members of the State agency/institution management team. The management team shall provide clear direction and visible support for security initiatives. Each agency/institution is responsible for:

- Initiating measures to assure and demonstrate compliance with the security requirements outlined in this policy
- Implementing and maintaining an Information Security Program
- Identifying a role (position/person/title) that is responsible for implementing and maintaining the agency security program
- Ensuring that security is part of the information planning and procurement process
- Participating in annual information systems data security self-audits focusing on compliance to this State data security policy
- Determining the feasibility of conducting regular external and internal vulnerability assessments and penetration testing to verify security controls are working properly and to identify weaknesses
- Implementing a risk management process for the life cycle of each critical information system
- Assuring the confidentiality, integrity, availability, and accountability of all agency information while it is being processed, stored, and/or transmitted electronically, and the security of the resources associated with those processing functions
- Assuming the lead role in resolving agency security and privacy incidents

- Ensuring separation of duties and assigning appropriate system permissions and responsibilities for agency system users
- Identifying 'business owners' for any new system that are responsible for:
 - Classifying data
 - Approving access and permissions to the data
 - Ensuring methods are in place to prevent and monitor inappropriate access to confidential data
 - Determining when to retire or purge the data

(C) Employees, Contractors and Third Parties

All State employees, contractors, and third party personnel are responsible for:

- Being aware of and complying with statewide and internal policies and their responsibilities for protecting information assets of their agency and the State
- Using information resources only for intended purposes as defined by policies, laws and regulations of the State or agency
- Being accountable for their actions relating to their use of all State information systems

Part 3. Purpose

The information security policies set forth the minimum requirements that are used to govern the South Carolina Information Security (INFOSEC) Program. Agencies and institutions are expected to comply with the State's information security policies. Agencies and institutions may leverage existing policies or develop policies based on the guidance from the State's information security policies. These policies exist in addition to all other [Agency] policies and federal and state regulations governing the protection of [Agency] data. Adherence to the policies will improve the security posture of the State and help safeguard [Agency] information technology resources.

Part 4. Overview

Each information security policy consists of the following:

- **Purpose:** Provides background to each area of the information security policies.
- **Policy:** Contains detailed policies that relate to each information security section, and are associated with National Institute of Standards and Technology (NIST) Special Publications (SP) 800-53 Revision 4 controls.
- **Policy Supplement:** Contains the security solution requirements and recommendations that are connected to the South Carolina Information Security Standards.
- **Guidance:** Provides references to guidelines on information security policies.

INFORMATION SECURITY POLICY

Asset Management

1.1 Asset Identification

Purpose	<p>The purpose of asset identification is to define the basis for developing an inventory of assets that support an [Agency]. Compiling an inventory of assets is important for judging the relative value and importance of agency assets. Based on this information, [Agency] shall provide appropriate levels of protection.</p>
Policy	<p>Information System Component Inventory (CM 8)</p> <ul style="list-style-type: none"> • [Agency] shall document and maintain inventories of the important assets associated with each information system. Asset inventories shall include a unique system name, a system/business owner, a data classification, and a description of the location of the asset. <p>Examples of assets associated with information systems are:</p> <ul style="list-style-type: none"> ○ Information assets: databases and data files, system documentation, user manuals, training material, operational procedures, disaster recovery plans, archived information; ○ Software assets: application software, system software, development tools and utilities; ○ Physical assets: physical equipment (e.g., processors, monitors, laptops, portable devices, tablets, smartphones), communication equipment (e.g., routers, servers), magnetic media (e.g., tapes and disks); and ○ Services: computing and communications services. • Access to [Agency] assets shall be requested via a formal registration process that requires user acknowledgement of all rules and regulations pertinent to the asset. • [Agency] shall periodically revalidate the asset to ensure that it is classified appropriately and that the safeguards remain valid and operative. <p>Security Impact Analysis (CM 4)</p> <ul style="list-style-type: none"> • [Agency] shall classify assets into the data classification types in the State of South Carolina Data Classification Schema. • [Agency] shall ensure that each asset is classified based on data classification type and impact level, and the appropriate level of information security safeguards are available and in place.
Policy Supplement	<p>A policy supplement has not been identified.</p>
Guidance	<p>NIST SP 800-53 Revision 4: CM 4 Security Impact Analysis NIST SP 800-53 Revision 4: CM 8 Information System Component Inventory</p>

DEFINITIONS

Authentication: The process of establishing confidence in user identities through a well specified message exchange process that verifies possession of a password, token to remotely authenticate a claimant.

Authorization: Authorization is the process of enforcing policies: determining what types or qualities of activities, resources, or services a user is permitted. Authorization occurs within the context of authentication. Once a user has been authenticated, they may be authorized for different types of access.

Brute force attacks: A method of accessing an obstructed device through attempting multiple combinations of numeric/alphanumeric passwords.

Data at rest: All data in storage, regardless of the storage device, that is not in motion. This excludes information traversing a network or temporarily residing in non-volatile computer memory. Data at rest primarily resides in files on a file system. However, data at rest is not limited to file data. Databases, for example, are often backed by data files, and their contents can be thought of as rows and columns of data elements instead of as individual files. Agency should consider all aspects of storage when designing an encryption solution.

Degaussing: Degaussing is exposing the magnetic media to a strong magnetic field in order to disrupt the recorded magnetic domains.

Least privilege: Every program and every user of the system should operate using the least set of privileges necessary to complete the job. Primarily this principle limits the damage that can result from an accident or error. - This principle requires that each subject in a system be granted the most restrictive set of privileges (or lowest clearance) needed for the performance of authorized tasks only for the minimum amount of time necessary. The application of this principle limits the damage that can result from accident, error, or unauthorized use or activity.

Media sanitization: Media sanitization is a process by which data is irreversibly removed from media or the media is permanently destroyed. There are different types of sanitization for each type of media including: disposal, clearing, purging and destroying.

Obfuscation: Data masking or data obfuscation is the process of de-identifying (masking) specific data elements within data stores. The main reason for applying masking to a data field is to protect data that is classified as personal identifiable data, personal sensitive data or commercially sensitive data; however the data must remain usable for the purposes of undertaking valid test cycles.

RBAC: A role based access control (RBAC) policy bases access control decisions on the functions a user is allowed to perform within an organization. The users cannot pass access permissions on to other users at their discretion. A role is essentially a collection of permissions, and all users receive permissions only through the roles to which they are assigned, or through roles they inherit through the role hierarchy. Within an organization, roles are relatively stable, while users and permissions are both numerous and may change rapidly.

SDLC: The multistep process that starts with the initiation, analysis, design, and implementation, and continues through the maintenance and disposal of the system, is called the System Development Life Cycle (SDLC).

Two-factor authentication (2FA): Authentication systems identify three factors as the cornerstone of authentication: something you know (for example, a password); something you have (for example, an ID badge or a cryptographic key); something you are. Multi-factor authentication refers to the use of two of these three factors listed above.