

# Big Brother is Watching Your Big Data: z/OS Actions Buried in the FISMA Security Regulation

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Session #12765

# Quick Abstract:

## About this Presentation

- This presentation is part FISMA primer...
- ...and part best practice guide for z/OS.
- In short, it's intended to give you an idea as to how to address FISMA in the z/OS environment. Including:
  - Compliance perspective
  - Technology perspective



# Some Disclaimers



- I work for CA Technologies.
  - CA has vested interest in some of the security software mentioned.
  - But I am going to be very generic here.
- I am not an attorney or an auditor.
  - Suggestions herein focus on potential *technical* solutions for FISMA requirements.
  - Please review with legal and auditing professionals.

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# Agenda



- *Brief* Level Set: Who Should Follow FISMA
  - Some Surprises Here!
- FISMA Basis
  - Chain of Legal Documents
- FISMA Technical Requirements Overview
  - Best Practice/Project Approach – 10 steps!
- FISMA and z/OS Technology
  - Walk Through Control Families
- The *Present* Future

# ***Brief Level Set***

# Getting on the Same Page:

## What is FISMA?



- FISMA: Federal Information Security Management Act of 2002
- US Federal Law
- Targeted Toward Securing US Federal Data
- Spawning Useful Standards and Infrastructure (even outside of US borders)

# Getting on the Same Page: What is FISMA?

## § 3541. Purposes

The purposes of this subchapter are to—  
(1) provide a comprehensive framework for ensuring the effectiveness of information security controls over information resources that support Federal operations and assets;

- FISMA

- Targeted Toward Securing US Federal Data



# Who *Should* Follow FISMA?

- Any Organization
  - Useful standard
  - Very useful evolving infrastructure

# Who *Should* Follow FISMA?

## **§ 3544. Federal agency responsibilities**

(a) IN GENERAL.—The head of each agency shall—

(1) be responsible for—

(A) providing information security protections commensurate with the risk and magnitude of the harm resulting from unauthorized access, use, disclosure, disruption, modification, or destruction of—

(i) information collected or maintained by or on behalf of the agency; and

(ii) information systems used or operated by an agency or by a contractor of an agency or other organization on behalf of an agency;

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  - Useful standard
  - Very useful evolving infrastructure
- US Federal Agencies
  - Partially Excluding:
    - National Security Systems
    - DoD and CIA

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    - DoD and CIA
  - Including:
    - Data Center Outsourcers?

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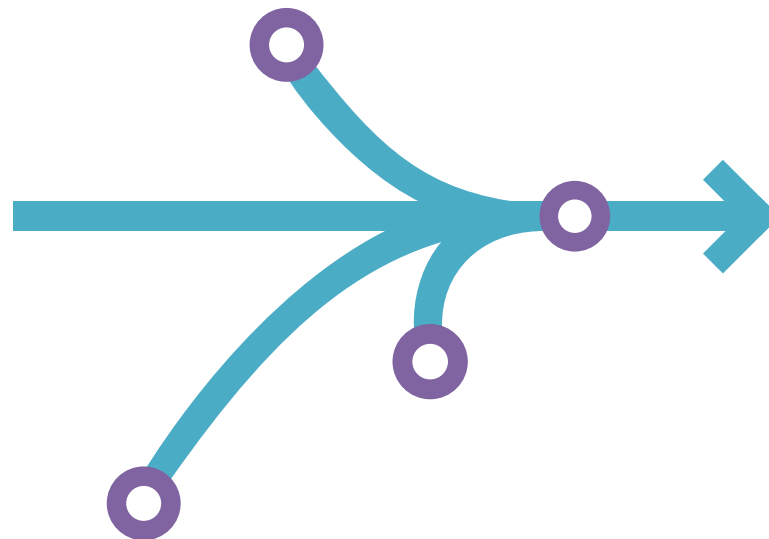
(ii) information systems used or operated by an agency or by a contractor of an agency or other organization on behalf of an agency;

- Any Organization
  - Useful standard
  - Very useful evolving infrastructure
- US Federal Agencies
  - Partially Excluding:
    - National Security Systems
    - DoD and CIA
  - Including:
    - Data Center Outsourcers?
- Any Organization that Provides Data to US Federal Agencies?

# Do You Provide Data to Federal Agencies?

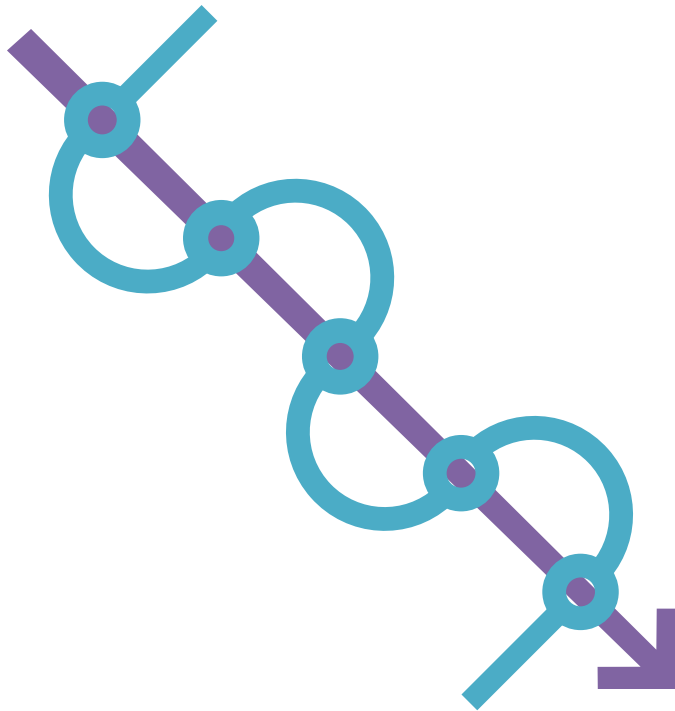
## Examples Only

- State Governments:
  - Tax (IRS) and Social Security (SSA) Data
  - Medicaid Data
- Health Insurance Companies and Healthcare Providers
  - Medicare/Medicaid Transactions (CMS)
- Banks/FCUs/Brokerages
  - Transactions over \$10,000
- Federal Contractors
  - Medicare Processing
  - Student Loan Processing
  - Etc.



# FISMA Basis

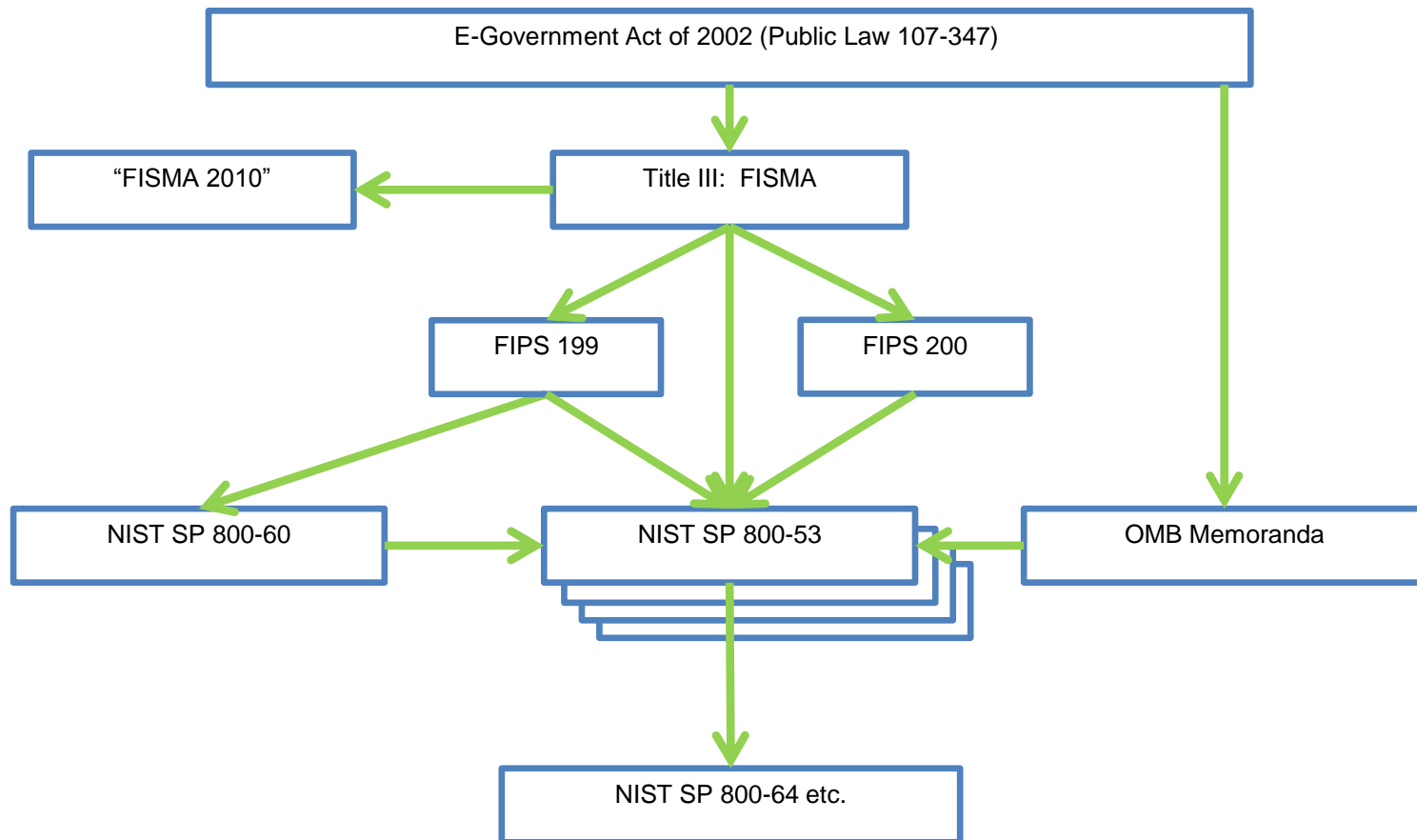
# Federal Laws Tend to Spawn Other Documents



- Initial Law
- Agency that Qualifies Standard
- Additional Agency Variations
- Jurisdictional Mandates/Modifications
- Potential Modifying Laws



# The FISMA Paper Trail



# FISMA Requirements: Project Approach

# Best Practice: Initial Steps

# Best Practice: Initial Steps

1. Obtain SP 800-53 from NIST.

# NIST SP 800-53

NIST Special Publication 800-53  
Revision 3

**NIST**  
National Institute of  
Standards and Technology  
U.S. Department of Commerce

Recommended Security Controls  
for Federal Information Systems  
and Organizations

JOINT TASK FORCE  
TRANSFORMATION INITIATIVE

INFORMATION SECURITY

- Current Revision
  - Revision 3
- Draft Revision
  - Revision 4 (final comment draft released this week)
  - Anticipated in April 2013
- Go right to Appendix F!

## APPENDIX F

### SECURITY CONTROL CATALOG

SECURITY CONTROLS, ENHANCEMENTS, AND SUPPLEMENTAL GUIDANCE

The catalog of security controls in this appendix provides a range of safeguards and countermeasures for organizations and information systems. The organization of the security control catalog, the structure of the controls, and the concept of allocating security controls and control enhancements to the initial baselines in Appendix D are described in Chapter Two. The security controls in the catalog are expected to change over time, as controls are withdrawn, revised and added. In order to maintain stability in security plans and automated tools supporting the implementation of NIST Special Publication 800-53, security controls and control enhancements will not be renumbered each time a control or enhancement is withdrawn. Notations of security controls and controls enhancements that have been withdrawn will be maintained in the catalog for historical purposes.

# Best Practice: Initial Steps

1. Obtain SP 800-53 from NIST.
2. Obtain *specific* controls from federal department/agency.

# Example Control

Control



AC-11 SESSION LOCK

Control: The information system:

Specifics



- a. Prevents further access to the system by initiating a session lock after [*Assignment: organization-defined time period*] of inactivity or upon receiving a request from a user; and
- b. Retains the session lock until the user reestablishes access using established identification and authentication procedures.

Supplemental Guidance: A session lock is a temporary action taken when a user stops work and moves away from the immediate physical vicinity of the information system but does not want to log out because of the temporary nature of the absence. The session lock is implemented at the point where session activity can be determined. This is typically at the operating system-level, but may be at the application-level. A session lock is not a substitute for logging out of the information system, for example, if the organization requires users to log out at the end of the workday.

Control Enhancements:

- (1) The information system session lock mechanism, when activated on a device with a display screen, places a publically viewable pattern onto the associated display, hiding what was previously visible on the screen.

References: OMB Memorandum 06-16.

Priority and Baseline Allocation:

P3	LOW Not Selected	MOD AC-11	HIGH AC-11
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## Best Practice: Initial Steps

1. Obtain SP 800-53 from NIST.
2. Obtain *specific* controls from federal department/agency.
3. Determine security/impact level per *affected* LPAR.



# Example Control

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Priority and Baseline Allocation:

Level



P3	LOW Not Selected	MOD AC-11	HIGH AC-11
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# Security and Impact Level

## Background:

- Ranked:
  - High
  - Moderate
  - Low
- Based Upon (“CIA”)
  - C – Confidentiality
  - I – Integrity
  - A – Availability
- Use “high water mark”
  - (Highest of CIA).

## Process:

- Federal department may have already determined level.
- Use FIPS 199, generally (my rules):
  - High: People will die.
  - Moderate: People will be seriously impacted.
  - Low: People will be inconvenienced.
- See SP 800-60
  - Examples of federal systems by “industry”.

# Best Practice: Initial Steps

1. Obtain SP 800-53 from NIST.
2. Obtain *specific* controls from federal department/agency.
3. Determine security/impact level per *affected* LPAR.
  - Usually the production machine with the federal data
  - Common to maintain similar controls on all machines
    - Avoids the possibility that auditor will determine that development is part of the production infrastructure.

## Best Practice: Initial Steps

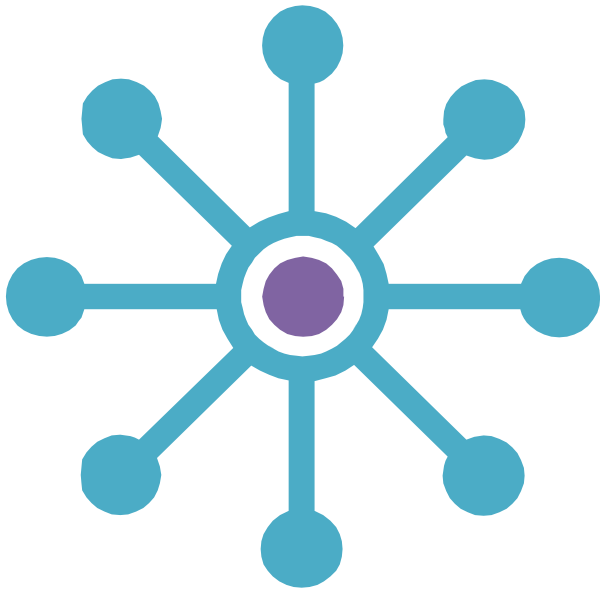
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4. Outline a document!

# Control Families

- Doc is made up of control families.
- The first control is always a chapter.
- But... change the order.

Security Assessment and Authorization					
CA-1	Security Assessment and Authorization Policies and Procedures	← P1	CA-1	CA-1	CA-1
CA-2	Security Assessments	P2	CA-2	CA-2 (1)	CA-2 (1) (2)
CA-3	Information System Connections	P1	CA-3	CA-3	CA-3
CA-4	Security Certification (Withdrawn)	---	---	---	---
CA-5	Plan of Action and Milestones	P3	CA-5	CA-5	CA-5
CA-6	Security Authorization	P3	CA-6	CA-6	CA-6
CA-7	Continuous Monitoring	P3	CA-7	CA-7	CA-7
Configuration Management					
CM-1	Configuration Management Policy and Procedures	← P1	CM-1	CM-1	CM-1
CM-2	Baseline Configuration	P1	CM-2	CM-2 (1) (3) (4)	CM-2 (1) (2) (3) (5) (6)
CM-3	Configuration Change Control	P1	Not Selected	CM-3 (2)	CM-3 (1) (2)
CM-4	Security Impact Analysis	P2	CM-4	CM-4	CM-4 (1)
CM-5	Access Restrictions for Change	P1	Not Selected	CM-5	CM-5 (1) (2) (3)
CM-6	Configuration Settings	P1	CM-6	CM-6 (3)	CM-6 (1) (2) (3)
CM-7	Least Functionality	P1	CM-7	CM-7 (1)	CM-7 (1) (2)
CM-8	Information System Component Inventory	P1	CM-8	CM-8 (1) (5)	CM-8 (1) (2) (3) (4) (5)
CM-9	Configuration Management Plan	P1	Not Selected	CM-9	CM-9
Contingency Planning					
CP-1	Contingency Planning Policy and Procedures	← P1	CP-1	CP-1	CP-1

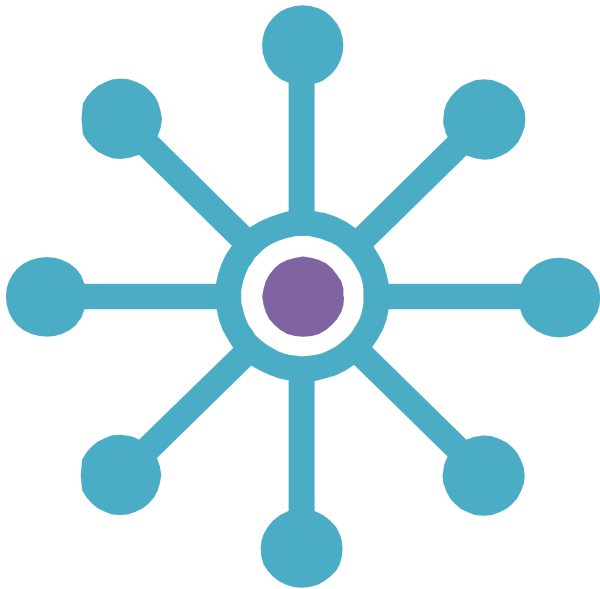
# Control Family: Planning (PL)



- Good first place to start.
- Sets up the process.

# Control Family:

## Planning (PL) *and* Risk Assessment (RA)



- Good second chapter.
- The creation of the document itself parallels the risk assessment.
- See SP 800-160 (draft)

# Best Practice: Initial Steps

1. Obtain SP 800-53 from NIST.
2. Obtain *specific* controls from federal department/agency.
3. Determine security/impact level per *affected* LPAR.
  - Usually the production machine with the federal data
  - Common to maintain similar controls on all machines
    - Avoids the possibility that auditor will determine that development is part of the production infrastructure.
4. Outline a document.
  - Each control family is a chapter.
  - Do planning and risk assessment first.
  - Others arrange in a logical order
    - (i.e.: Identification and Authentication before Access Control)



# Best Practice: Initial Steps

5. Divide controls into solution approach:
  - Policy Document (first control of each family)
  - Policy Detail (documented procedures in that family)
  - Technical Control (may imply software or software settings)

# Example Control

- Control → **AC-11 SESSION LOCK**
- Solution → Control: The information system:
- Specifics →
- Prevents further access to the system by initiating a session lock after [*Assignment: organization-defined time period*] of inactivity or upon receiving a request from a user; and
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Control Enhancements:

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References: OMB Memorandum 06-16.

Priority and Baseline Allocation:

Level →

P3	LOW Not Selected	MOD AC-11	HIGH AC-11
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# Determining Solution Type

## AC-1 ACCESS CONTROL POLICY AND PROCEDURES

- Control: The organization develops, disseminates, and reviews/updates [*Assignment: organization-defined frequency*]:
- a. A formal, documented access control policy that addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance; and
  - b. Formal, documented procedures to facilitate the implementation of the access control policy and associated access controls.

- Policy Document (or Chapter)

# Determining Solution Type

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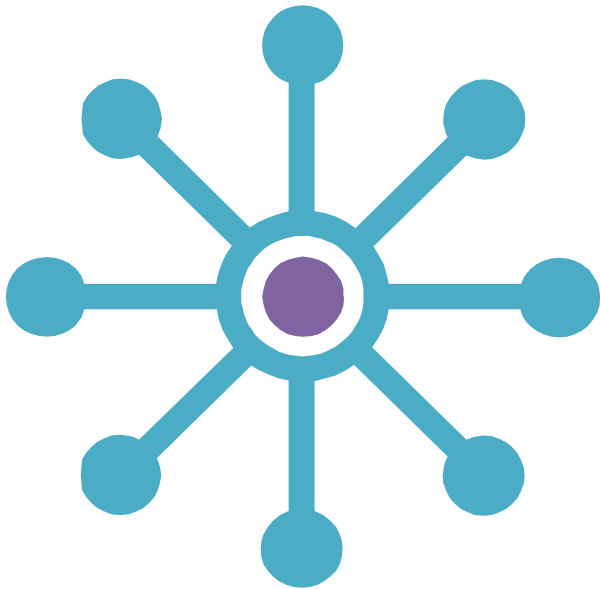
## AC-2 ACCOUNT MANAGEMENT

Control: The organization manages information system accounts, including:

- a. Identifying account types (i.e., individual, group, system, application, guest/anonymous, and temporary);

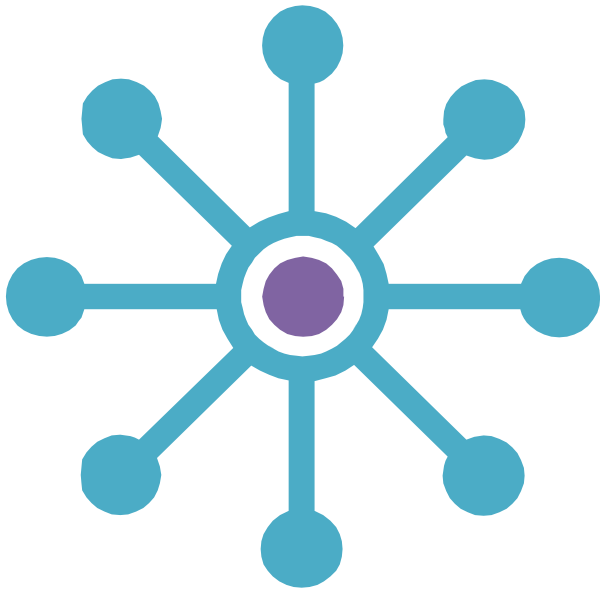
- Policy Detail

# Control Family: Contingency Planning (CP)



- Primarily Disaster Recovery Plans
- Backup and Recovery Tools

# Control Family: Software Acquisition (SA)



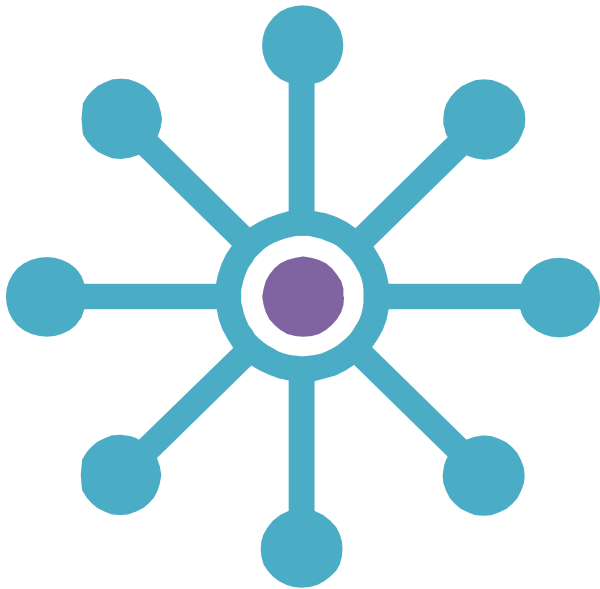
- Software Acquisition is:
  - Purchase/Lease (Supply Chain)
  - User Software
  - Development
- Mainframe Development Procedures and Promotion Software
  - See SP 800-64

## Best Practice: Initial Steps

5. Divide controls into solution approach:
  - Policy Document (first control of each family)
  - Policy Detail (documented procedures in that family)
  - Technical Control (may imply software or software settings)
6. Create chapter subsections that correspond to controls.
7. Retrofit existing documents.
8. Assign entire families that have not been documented.

# Control Family:

## System Maintenance Policy and Procedures (SM)

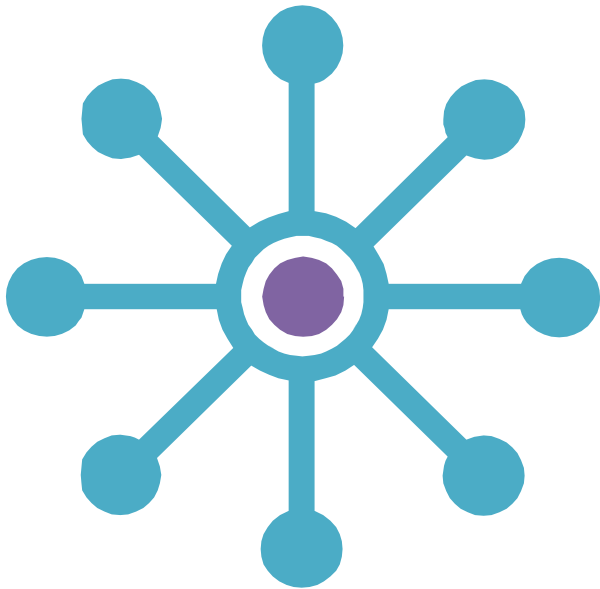


- Mostly procedural.
- Primarily hardware maintenance.



# Control Family:

## Physical and Environmental (PE)



- Physical security (i.e. door locks)
- Environmental (electricity, fire protection, etc.)
- No mainframe software

# Best Practice: Initial Steps

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  - Policy Document (first control of each family)
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  - Technical Control (may imply software or software settings)
6. Create chapter subsections that correspond to controls.
7. Retrofit existing documents.
8. Assign entire families that have not been documented.
9. Evaluate technical controls:
  - Determine what fields or options relate to control.
  - Determine where software is missing or unused.

# Determining Solution Type

## AC-7 UNSUCCESSFUL LOGIN ATTEMPTS

Control: The information system:



- a. Enforces a limit of *[Assignment: organization-defined number]* consecutive invalid access attempts by a user during a *[Assignment: organization-defined time period]*; and
- b. Automatically *[Selection: locks the account/node for an [Assignment: organization-defined time period]; locks the account/node until released by an administrator; delays next login prompt according to [Assignment: organization-defined delay algorithm]]* when the maximum number of unsuccessful attempts is exceeded. The control applies regardless of whether the login occurs via a local or network connection.

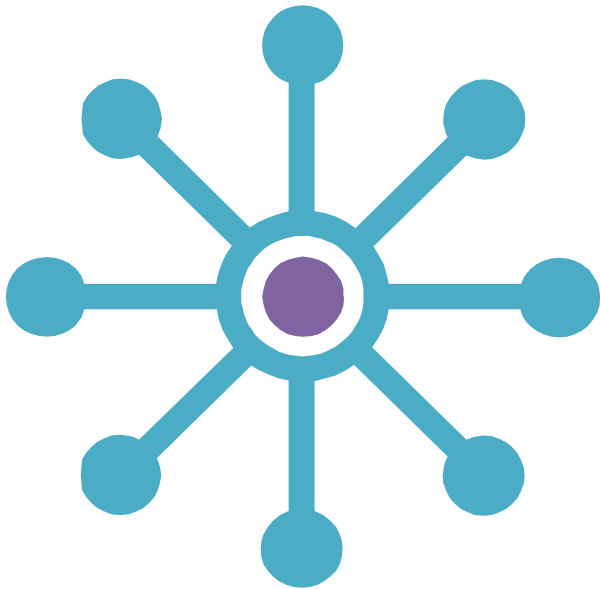
- Technical Control

## Best Practice: Initial Steps

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7. Retrofit existing documents.
8. Assign entire families that have not been documented.
9. Evaluate technical controls:
  - Determine what fields or options relate to control.
  - Determine where software is missing or unused.
  - Eliminate non-mainframe technologies. (wifi, virus, etc.)

# Control Family:

## System and Information Integrity (SI)



- Example: Virus Protection
- System change review.
- System change monitoring:
  - Compliance Manager for z/OS (CA)
    - Chorus: Security and Compliance Role
  - Potentially others.

# Technical Controls: FISMA and z/OS Technology

# Example Control

Control



AC-11

## SESSION LOCK

Control: The information system:

- a. Prevents further access to the system by initiating a session lock after [*Assignment: organization-defined time period*] of inactivity or upon receiving a request from a user; and
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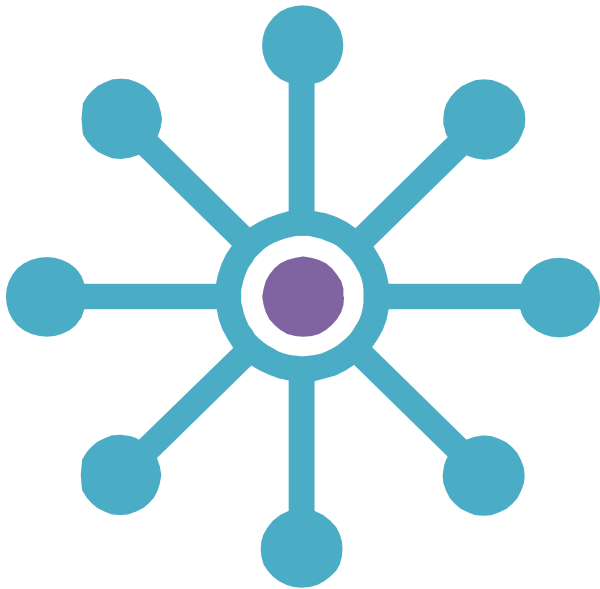
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Priority and Baseline Allocation:

P3	LOW Not Selected	MOD AC-11	HIGH AC-11
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# Control Family:

## Personnel Security (PS)

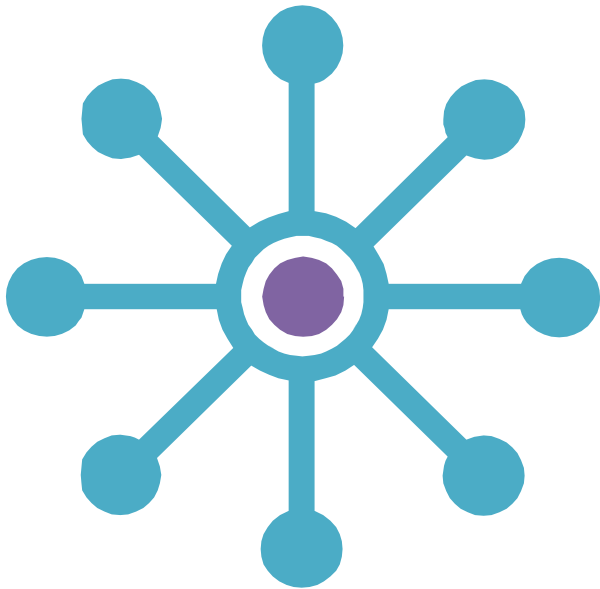


- Defines roles of individuals.
- No mainframe software.
- But is a precursor to understanding roles.
- Example: PS-2: Position Categorization – identifies risky roles.



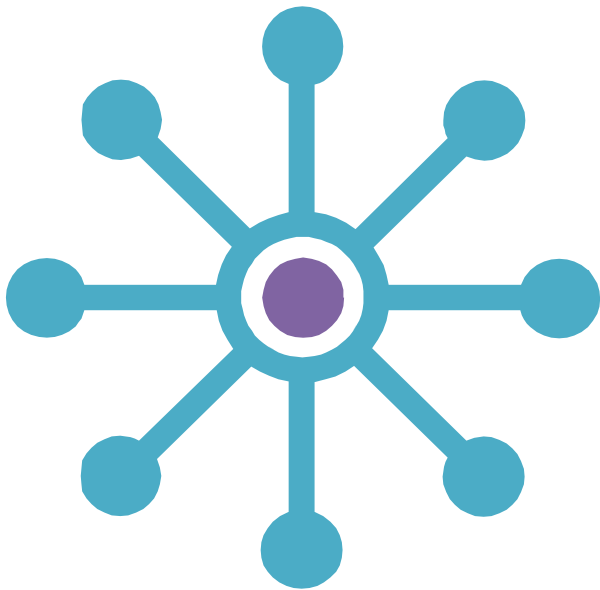
# Control Family:

## Identification and Authentication (IA)



- Access Control Products (for password and digital certificates):
  - ACF2 (CA)
  - RACF (IBM)
  - Top Secret (CA)

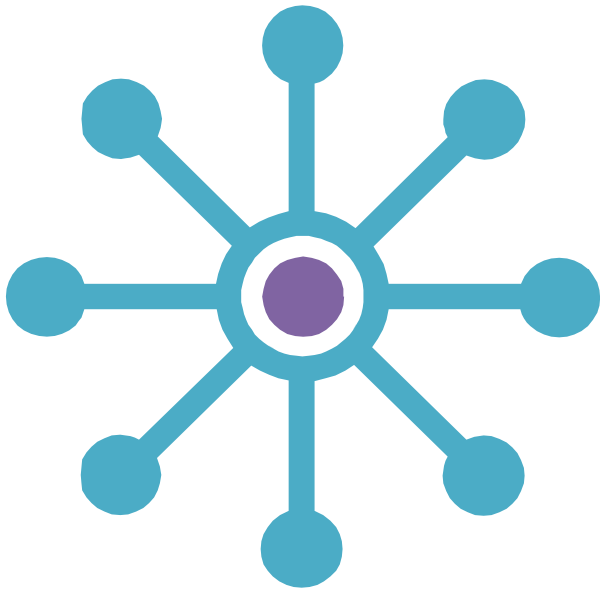
# Control Family: Access Control (AC)



- Access Control Products:
  - ACF2 (CA)
  - RACF (IBM)
    - Policy Manager (Vanguard)
    - inCompliance (Vanguard)
  - Top Secret (CA)
- Online Systems (for session control)
  - TSO (IBM)
  - CICS (IBM)
  - IMS (IBM)
- Provisioning Products (for account management aspects):
  - IdentityMinder (CA)
  - Numerous others.

# Control Family:

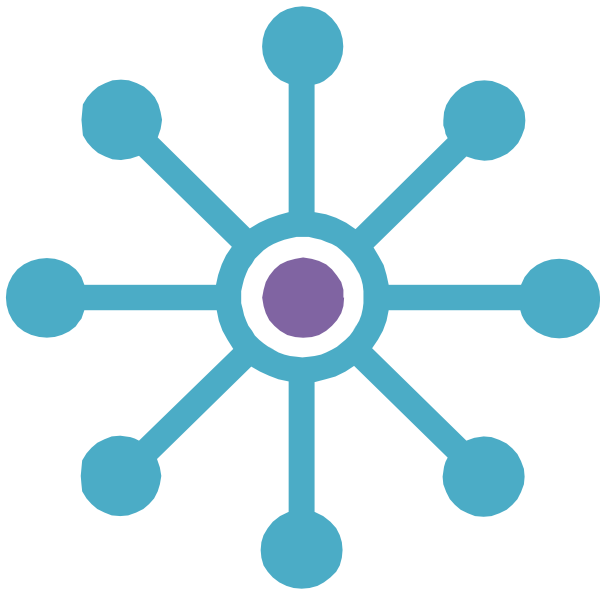
## Audit and Accountability (AU)



- z/OS Audit Trail
  - SMF (IBM)
- Access Control Products:
  - ACF2 (CA)
  - RACF (IBM)
  - Top Secret (CA)
- Event Management Software
  - Compliance Manager for z/OS (CA)
    - Chorus: Security and Compliance Role
  - Vanguard
  - IBM
  - Potentially others.

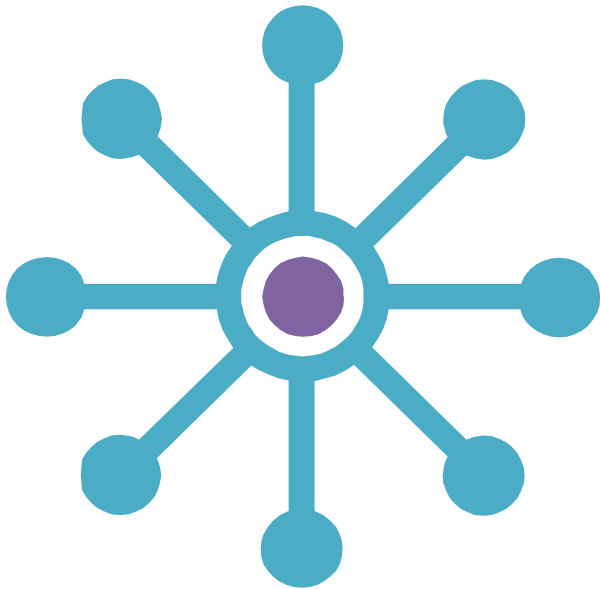
# Control Family:

## Security Assessment and Authorization (CA)



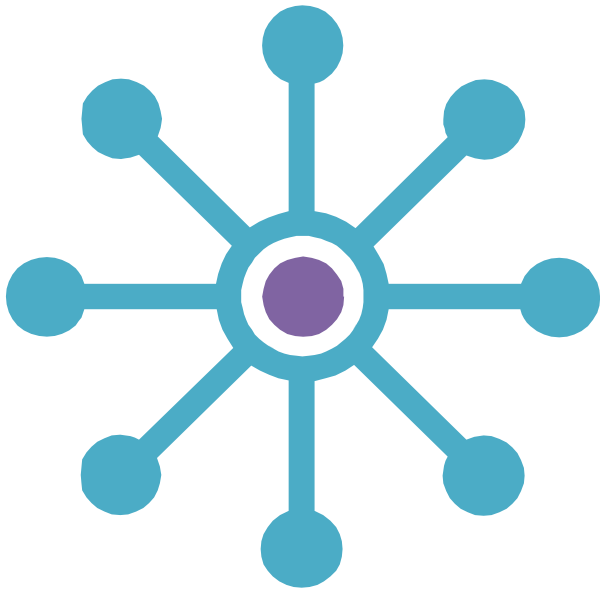
- Continuous Monitoring (CA-7)
  - Compliance Manager for z/OS (CA)
    - Chorus: Security and Compliance Role
  - Vanguard Tools
  - IBM Tools
  - Potentially Others
- (Everything else is policy.)

# Control Family: Incident Response (IR)



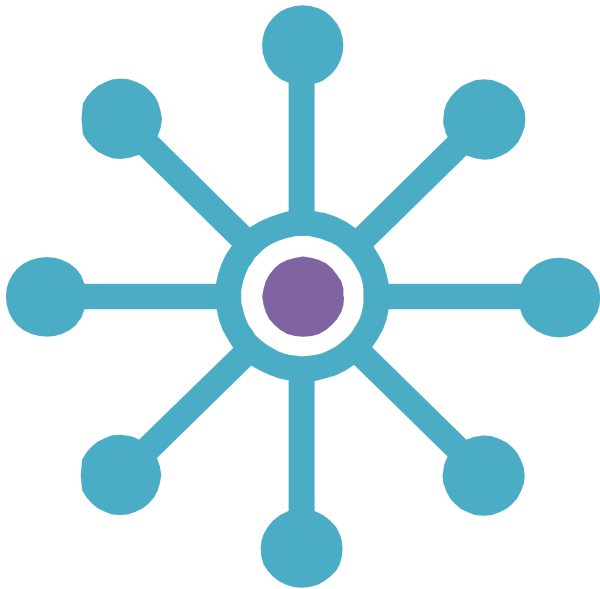
- Mostly procedural.
- Helpdesk software is implied
  - Numerous vendors including CA.
- Monitoring (same as auditing):
  - z/OS Audit Trail
    - SMF (IBM)
  - Access Control Products:
    - ACF2 (CA)
    - RACF (IBM)
    - Top Secret (CA)
  - Event Management Software
    - Compliance Manager for z/OS (CA)
      - *Chorus: Security and Compliance Role*

# Control Family: Configuration Management (CM)



- Baseline
  - Auditor (CA)
  - Vanguard Tools
  - IBM Tools
  - Potentially Others
- System Change Control
- Configuration Change Monitoring
  - Compliance Manager for z/OS (CA)
    - Chorus: Security and Compliance Role
  - Vanguard Tools
  - IBM Tools
  - Potentially Others

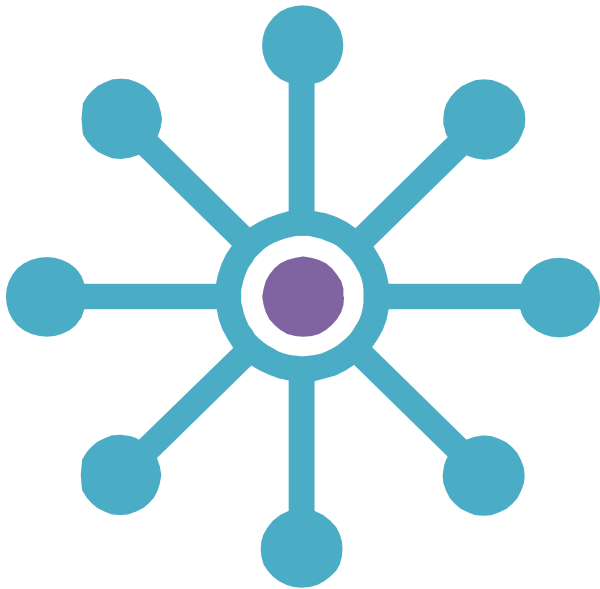
# Control Family: Media Protection (MP)



- Mostly procedural.
- Tape Management:
  - CA-1 (CA)
  - RMM (IBM)
  - TLMS (CA)
  - Others
- Overwrite of Disk Data:
  - ACF2 (CA)
  - RACF (IBM)
  - Top Secret (CA)

# Control Family:

## System and Communication Protection (SC)

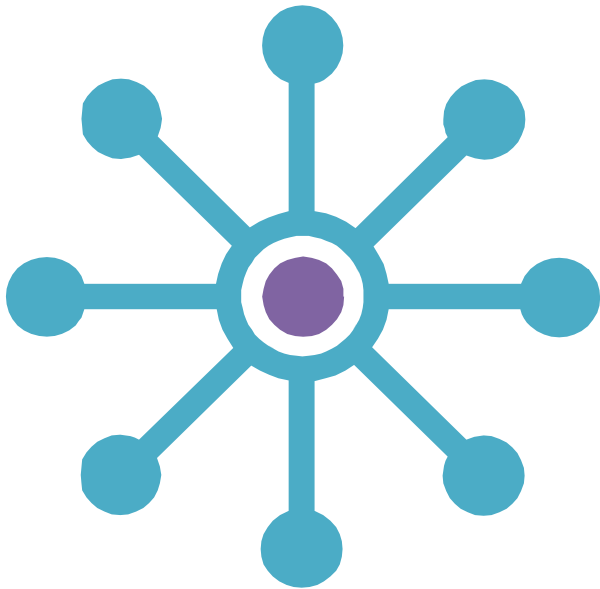


- Data transmission (integrity, encryption)
  - Network based encryption (usually outside of mainframe boundary)
  - File transfer (includes mainframe)
- Key management
  - May include:
    - ACF2 (CA)
    - RACF (IBM)
    - Top Secret (CA)
- Mainframe network monitoring (to a degree)
- Most other provisions are outside mainframe.



# Control Family:

## Awareness and Training (AT)



- Example: AT-5: Contacts with Security Groups and Associations
  - “To stay up to date”
  - “To share security-related information including threats, vulnerabilities...”
- PTF notification for Access Control Products:
  - ACF2 (CA)
  - RACF (IBM)
  - Top Secret (CA)

# Best Practice: Technical Steps

## 10. Prioritize.

- Relative Priorities, 1 through 3.

# Example Control

Control



AC-11 SESSION LOCK

Control: The information system:

- a. Prevents further access to the system by initiating a session lock after [*Assignment: organization-defined time period*] of inactivity or upon receiving a request from a user; and
- b. Retains the session lock until the user reestablishes access using established identification and authentication procedures.

Supplemental Guidance: A session lock is a temporary action taken when a user stops work and moves away from the immediate physical vicinity of the information system but does not want to log out because of the temporary nature of the absence. The session lock is implemented at the point where session activity can be determined. This is typically at the operating system-level, but may be at the application-level. A session lock is not a substitute for logging out of the information system, for example, if the organization requires users to log out at the end of the workday.

Control Enhancements:

- (1) The information system session lock mechanism, when activated on a device with a display screen, places a publically viewable pattern onto the associated display, hiding what was previously visible on the screen.

References: OMB Memorandum 06-16.

Priority and Baseline Allocation:

Priority

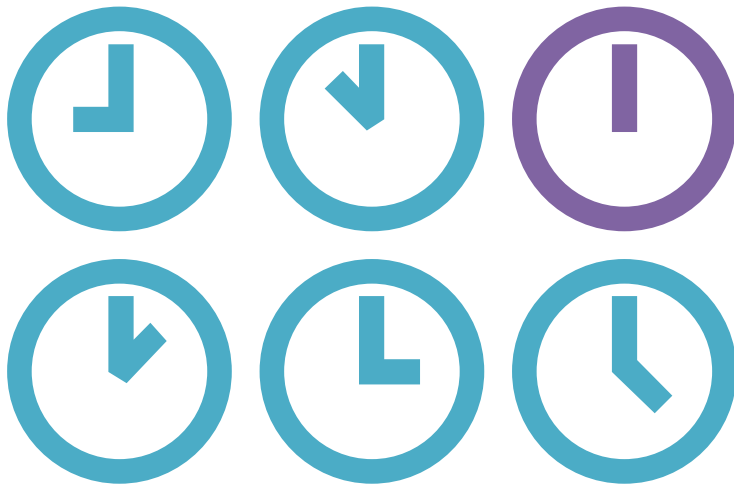


P3	LOW Not Selected	MOD AC-11	HIGH AC-11
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# The *Present* Future

# Evolving Practices

## The Future is Now



- NIST SP 800-53 Revision 4
  - Due out in April
- Cyberscope and Continuous Monitoring
  - DHS
- NIST SCAP Infrastructure
  - Security Content Automation Protocol

# Thanks!

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