

Unit #3

MIS5214

Planning and Policy

Agenda

- In the News
- Teams
- Risk Management Framework and IS Security Categorization
- Mapping Information Types to Security Categorizations
- *Exercise: How to assess and information security policy?*
- *Exercise – Determine Information and Information System Types and provisional security categorization*
- Security Control Baselines – review
 - Minimum Security Controls and Security Control Baselines
 - Security Control Families
- Planning Controls

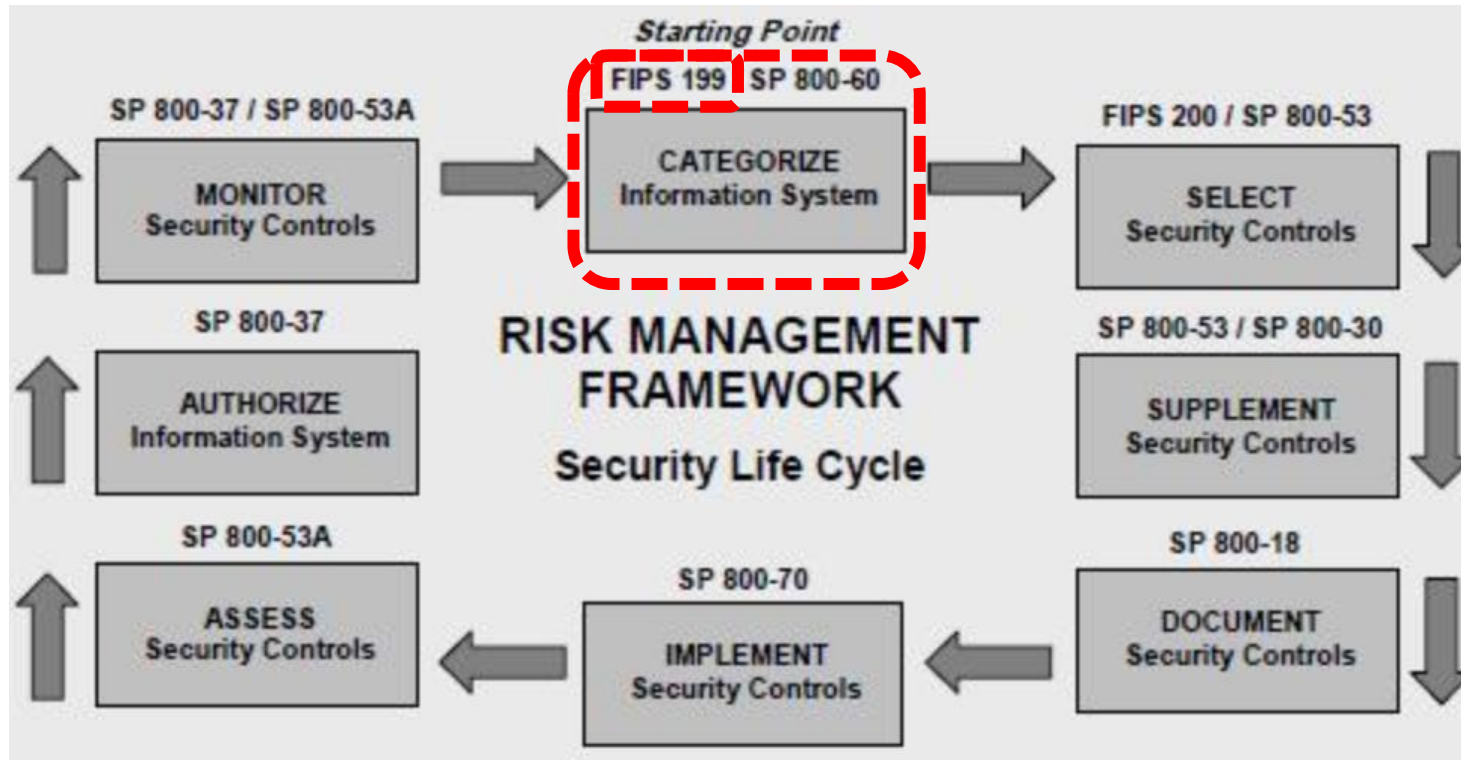
In The News



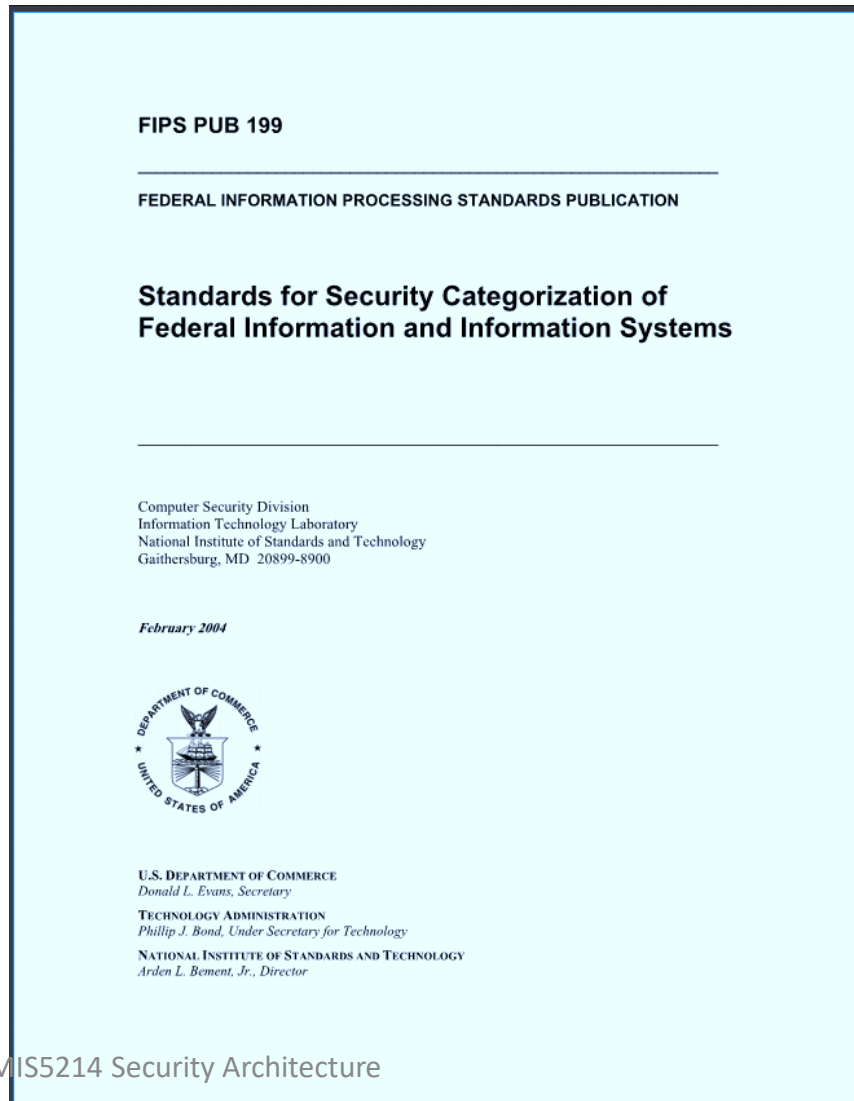
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Risk Management Framework

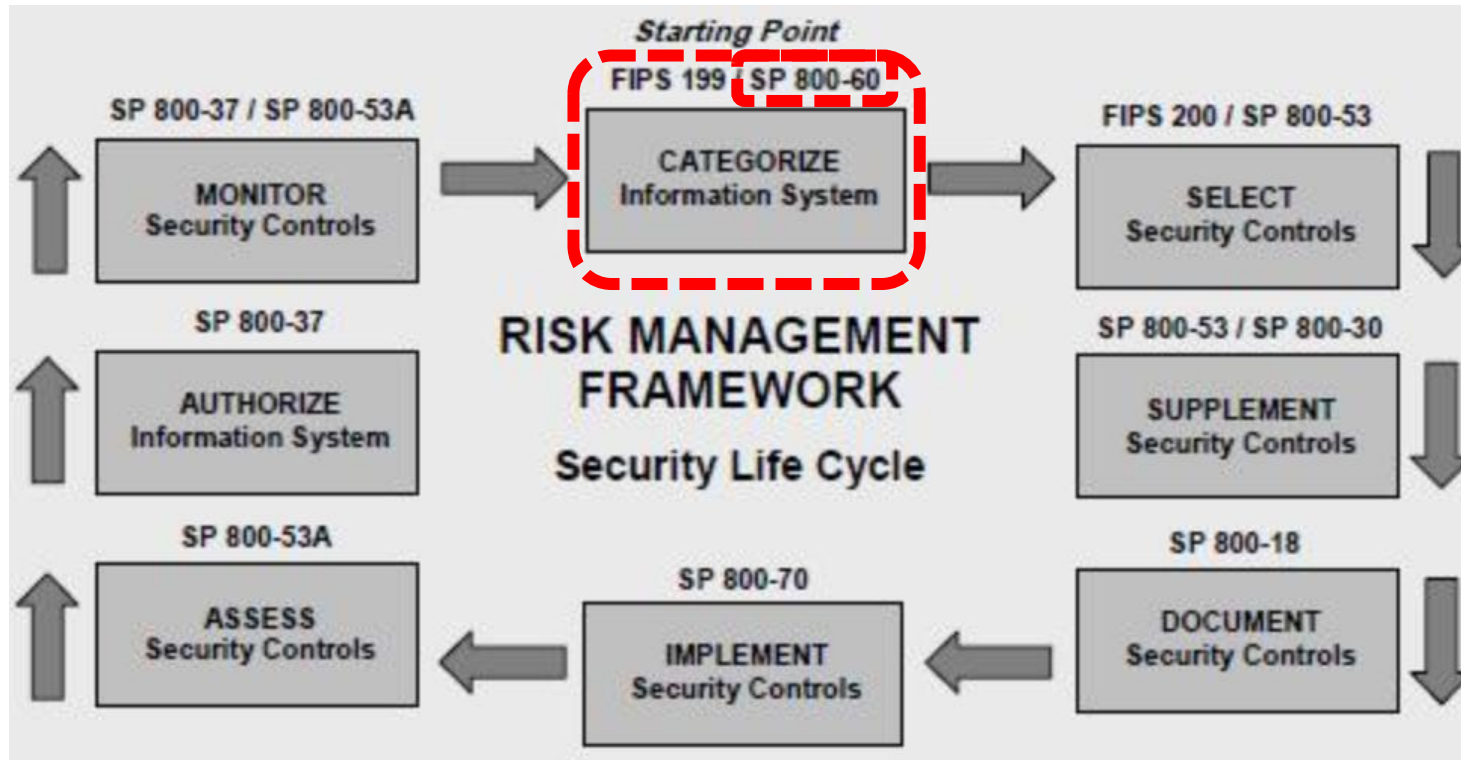


Risk Assessment based on security objectives and impact ratings for information and information system

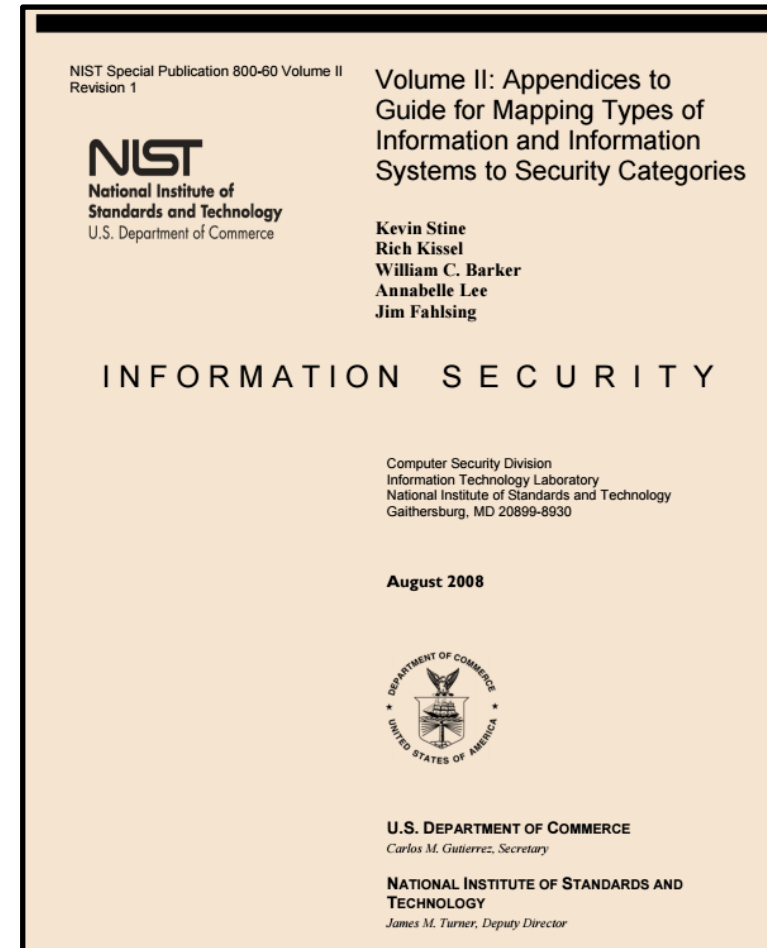
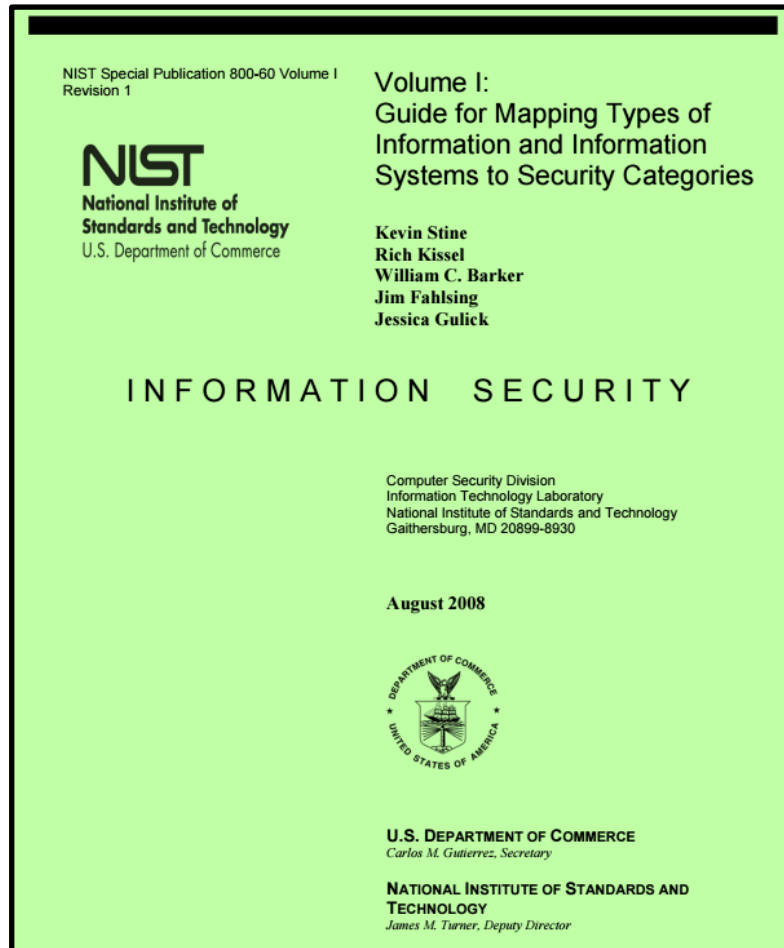


	POTENTIAL IMPACT		
Security Objective	LOW	MODERATE	HIGH
<p>Confidentiality Preserving authorized restrictions on information access and disclosure, including means for protecting personal privacy and proprietary information. [44 U.S.C., SEC. 3542]</p>	<p>The unauthorized disclosure of information could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.</p>	<p>The unauthorized disclosure of information could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.</p>	<p>The unauthorized disclosure of information could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.</p>
<p>Integrity Guarding against improper information modification or destruction, and includes ensuring information non-repudiation and authenticity. [44 U.S.C., SEC. 3542]</p>	<p>The unauthorized modification or destruction of information could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.</p>	<p>The unauthorized modification or destruction of information could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.</p>	<p>The unauthorized modification or destruction of information could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.</p>
<p>Availability Ensuring timely and reliable access to and use of information. [44 U.S.C., SEC. 3542]</p>	<p>The disruption of access to or use of information or an information system could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.</p>	<p>The disruption of access to or use of information or an information system could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.</p>	<p>The disruption of access to or use of information or an information system could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.</p>

Risk Management Framework

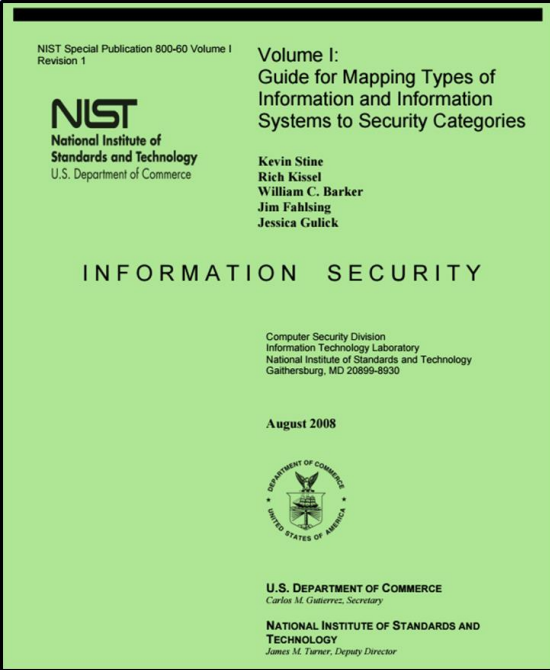


Mapping IS Types to Security Categories



<https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-60v1r1.pdf>

<https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-60v2r1.pdf>



<http://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-60v1r1.pdf>

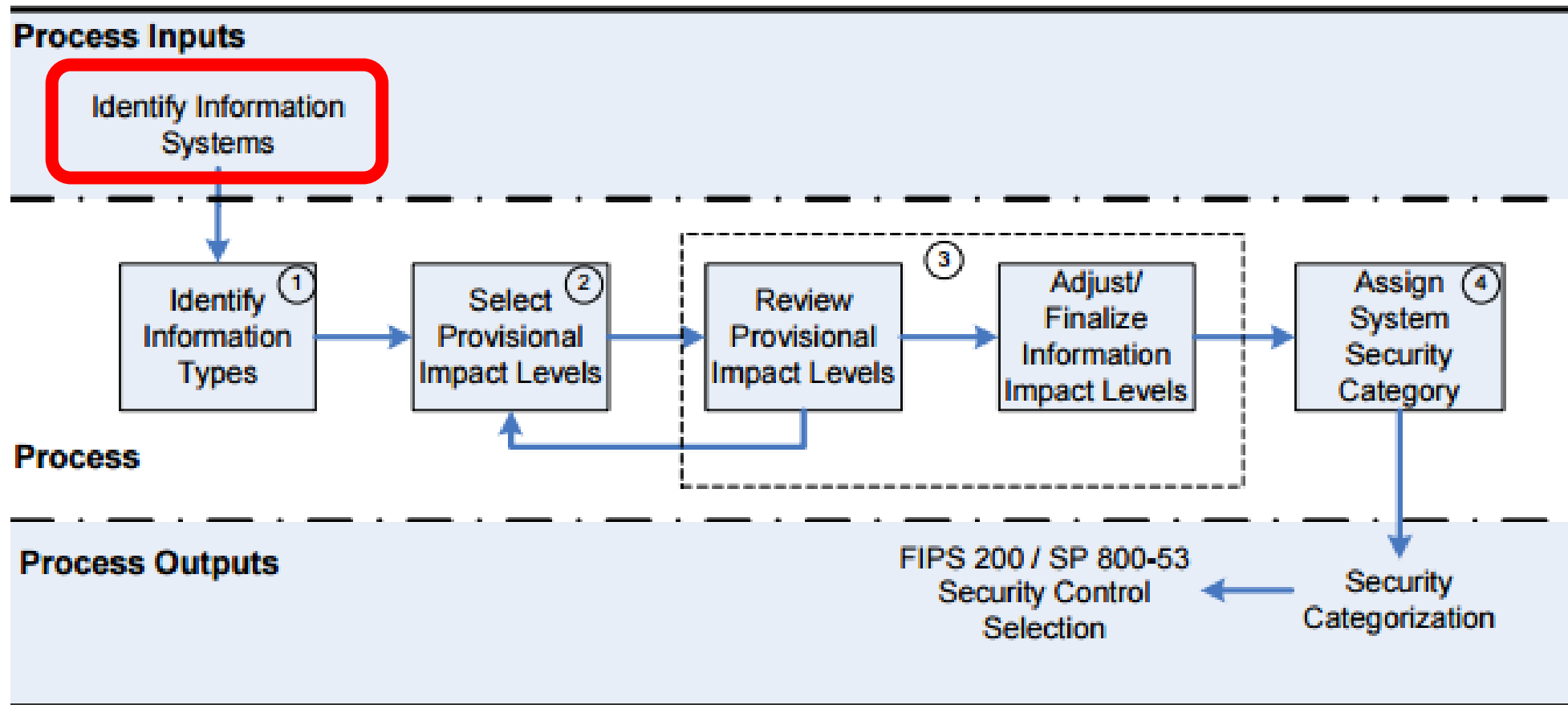


Figure 2: SP 800-60 Security Categorization Process Execution

2 Broad types of Information and Information Systems

1. Mission-based Information & Information Systems

2. Management and Support Information & Information Systems

NIST Special Publication 800-60 Volume I
Revision 1

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

Volume I:
Guide for Mapping Types of
Information and Information
Systems to Security Categories

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August 2008



U.S. DEPARTMENT OF COMMERCE
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NATIONAL INSTITUTE OF STANDARDS AND
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Mission-based Information and Information Systems

1. Defense and National Security
2. Homeland Security
3. Intelligence Operations
4. Disaster Management
5. International Affairs and Commerce
6. Natural Resources
7. Energy
8. Environmental Management
9. Economic Development
10. Community and Social Services
11. Transportation
12. Education
13. Workforce Management
14. Health
15. Income Security
16. Law Enforcement
17. Litigation and Judicial Activities
18. Federal Correctional Activities
19. General Sciences and Innovation
20. Knowledge Creation and Management
21. Regulatory Compliance and Enforcement
22. Public Goods Creation and Management
23. Federal Financial Assistance
24. Credit and Insurance
25. Transfers to State/Local Governments
26. Direct Services for Citizens

Disaster Management Information System Example

Levees of The Nation

6,993 Levee Systems 24,600 Miles of Levees 58 years Average Levee Age

Geography

Spatial Context: Filter to levees that fall within predefined geographical boundaries

The Nation

Click on a state below or on the map to zoom in. You can select other territory types from the drop-down menu.

States and Counties

Search this list

Alabama

Alaska

American Samoa

Arizona

Arkansas

California

Colorado

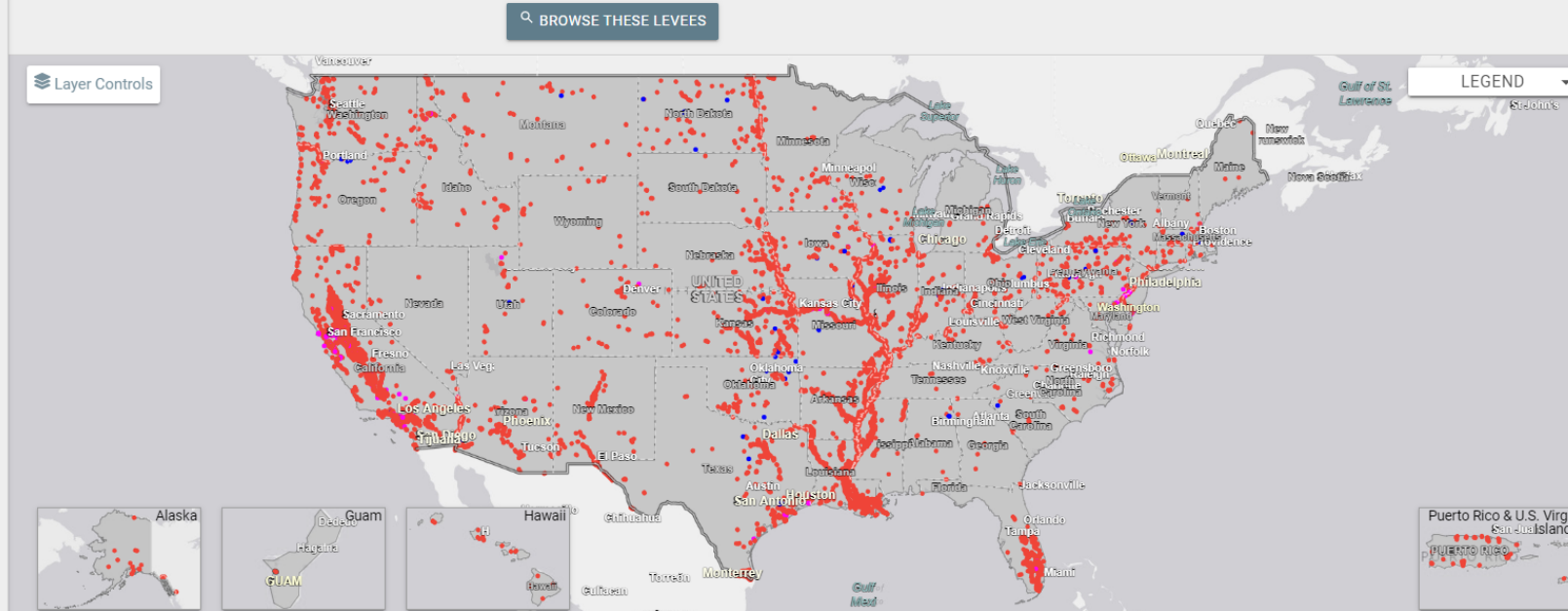
Commonwealth of the Northern Mariana Islands

Connecticut

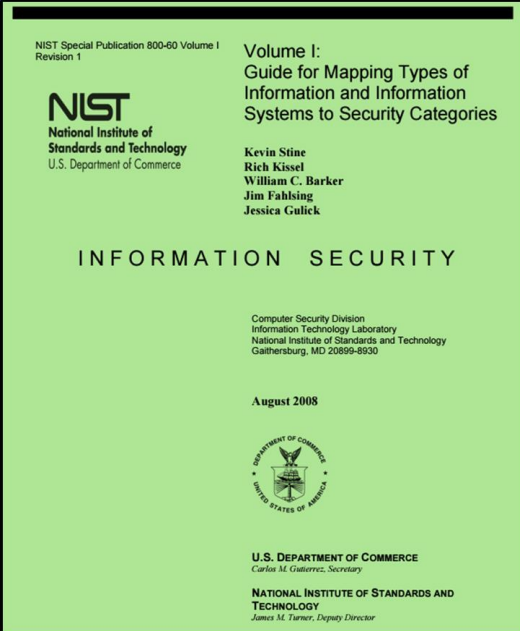
Delaware

District of Columbia

Florida



[National Levee Database](#)



2 Broad Types of Information and Information Systems

1. Mission-based Information & Information Systems

2. Management and Support Information & Information Systems

i. Services Delivery Support Functions

ii. Government Resource Management Functions

Services Delivery Support Functions and Information Types

1. Controls and Oversight
2. Regulatory Development
3. Planning and Budgeting
4. Internal Risk Management and Mitigation
5. Revenue Collection
6. Public Affairs
7. Legislative Relations
8. General Government

Example Management & Support Information & Information Systems

Table 5: Services Delivery Support Functions and Information Types¹⁵		
C.2.1 Controls and Oversight	C.2.4 Internal Risk Management & Mitigation	C.2.8 General Government
Corrective Action (Policy/Regulation)	Contingency Planning	Central Fiscal Operations
Program Evaluation	Continuity of Operations	Legislative Functions
Program Monitoring	Service Recovery	Executive Functions
C.2.2 Regulatory Development	C.2.5 Revenue Collection	Central Property Management
Policy & Guidance Development	Debt Collection	Central Personnel Management
Public Comment Tracking	User Fee Collection	Taxation Management
Regulatory Creation	Federal Asset Sales	Central Records & Statistics Management
Rule Publication	C.2.6 Public Affairs	<i>Income Information</i>
C.2.3 Planning & Budgeting	Customer Services	<i>Personal Identity and Authentication</i>
Budget Formulation	Official Information Dissemination	<i>Entitlement Event Information</i>
Capital Planning	Product Outreach	<i>Representative Payee Information</i>
Enterprise Architecture	Public Relations	<i>General Information</i>
Strategic Planning	C.2.7 Legislative Relations	
Budget Execution	Legislation Tracking	
Workforce Planning	Legislation Testimony	
Management Improvement	Proposal Development	
Budgeting & Performance Integration	Congressional Liaison Operations	
Tax & Fiscal Policy		

Example Resource Management Functions & Information Types

1. Administrative Management
2. Financial Management
3. Human Resources Management
4. Supply Chain Management
5. Information and Technology Management

Example Management and Support Information and Information Systems

Table 6: Government Resource Management Functions and Information Types¹⁶

C.3.1 Administrative Management	C.3.3 Human Resource Management	C.3.5 Information & Technology Management
Facilities, Fleet, and Equipment Management	HR Strategy	System Development
Help Desk Services	Staff Acquisition	Lifecycle/Change Management
Security Management	Organization & Position Mgmt	System Maintenance
Travel	Compensation Management	IT Infrastructure Maintenance
Workplace Policy Development & Management	Benefits Management	Information Security
C.3.2 Financial Management	Employee Performance Mgmt	Record Retention
Accounting	Employee Relations	Information Management
Funds Control	Labor Relations	System and Network Monitoring
Payments	Separation Management	Information Sharing
Collections and Receivables	Human Resources Development	
Asset and Liability Management	C.3.4 Supply Chain Management	
Reporting and Information	Goods Acquisition	
Cost Accounting/ Performance Measurement	Inventory Control	
	Logistics Management	
	Services Acquisition	

1. Identify Information Types

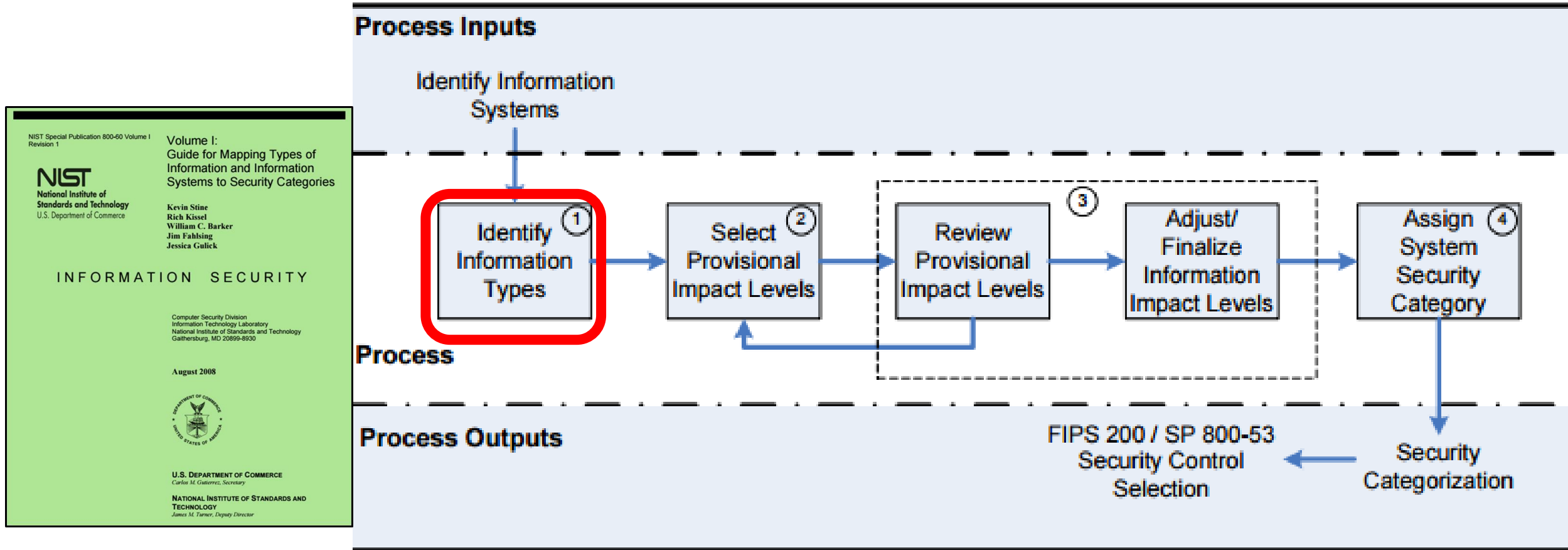


Figure 2: SP 800-60 Security Categorization Process Execution

<http://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-60v1r1.pdf>

Disaster Management Information Types

Table 4: Mission-Based Information

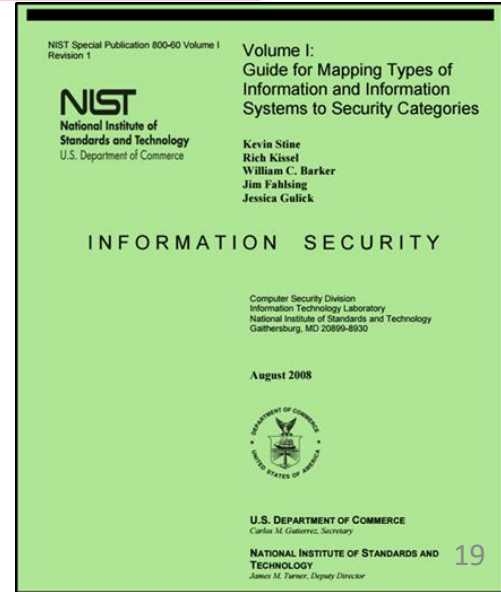
Mission Areas and Information	
<p>D.1 Defense & National Security Strategic National & Theater Defense Operational Defense Tactical Defense</p> <p>D.2 Homeland Security Border and Transportation Security Key Asset and Critical Infrastructure Protection Catastrophic Defense <i>Executive Functions of the Executive Office of the President (EOP)</i></p> <p>D.3 Intelligence Operations Intelligence Planning Intelligence Collection Intelligence Analysis & Production Intelligence Dissemination Intelligence Processing</p> <p>D.4 Disaster Management Disaster Monitoring and Prediction Disaster Preparedness and Planning Disaster Repair and Restoration Emergency Response</p> <p>D.5 International Affairs & Commerce Foreign Affairs International Development and Humanitarian Aid Global Trade</p> <p>D.6 Natural Resources Water Resource Management Conservation, Marine and Land Management Recreational Resource Management and Tourism Agricultural Innovation and Services</p>	<p>D.7 Energy Energy Supply Energy Conservation and Efficiency Energy Resource Management Energy Production</p> <p>D.8 Environmental Environmental Monitoring Forecasting Environmental Remediation Pollution Prevention and Control</p> <p>D.9 Economic Development Business and Industry Intellectual Property Financial Sector Oversight Industry Sector Income Stabilization</p> <p>D.10 Community & Social Services Homeownership Promotion Community and Regional Development Social Services Postal Services</p> <p>D.11 Transportation Ground Transportation Water Transportation Air Transportation Space Operations</p> <p>D.12 Education Elementary, Secondary, and Vocational Education Higher Education Cultural and Historic Preservation Cultural and Historic Exhibition</p> <p>D.13 Workforce Management Training and Employment Labor Rights Management Worker Safety</p>

D.4 Disaster Management
 Disaster Monitoring and Prediction
 Disaster Preparedness and Planning
 Disaster Repair and Restoration
 Emergency Response

Mode of Delivery]
<p>D.24 Credit and Insurance Direct Loans Loan Guarantees General Insurance</p> <p>D.25 Transfers to State/ Local Governments Formula Grants Project/Competitive Grants Earmarked Grants State Loans</p> <p>D.26 Direct Services for Citizens Military Operations Civilian Operations</p>

D.4 Disaster Management
 Disaster Monitoring and Prediction
 Disaster Preparedness and Planning
 Disaster Repair and Restoration
 Emergency Response

<p>D.16 Law Enforcement Criminal Apprehension Criminal Investigation and Surveillance Citizen Protection Leadership Protection Property Protection Substance Control Crime Prevention <i>Trade Law Enforcement</i></p> <p>D.17 Litigation & Judicial Activities Judicial Hearings Legal Defense Legal Investigation Legal Prosecution and Litigation Resolution Facilitation</p> <p>D.18 Federal Correctional Activities Criminal Incarceration Criminal Rehabilitation</p> <p>D.19 General Sciences & Innovation Scientific and Technological Research and Innovation Space Exploration and Innovation</p>





2. Select Provisional Impact Levels for the identified information system

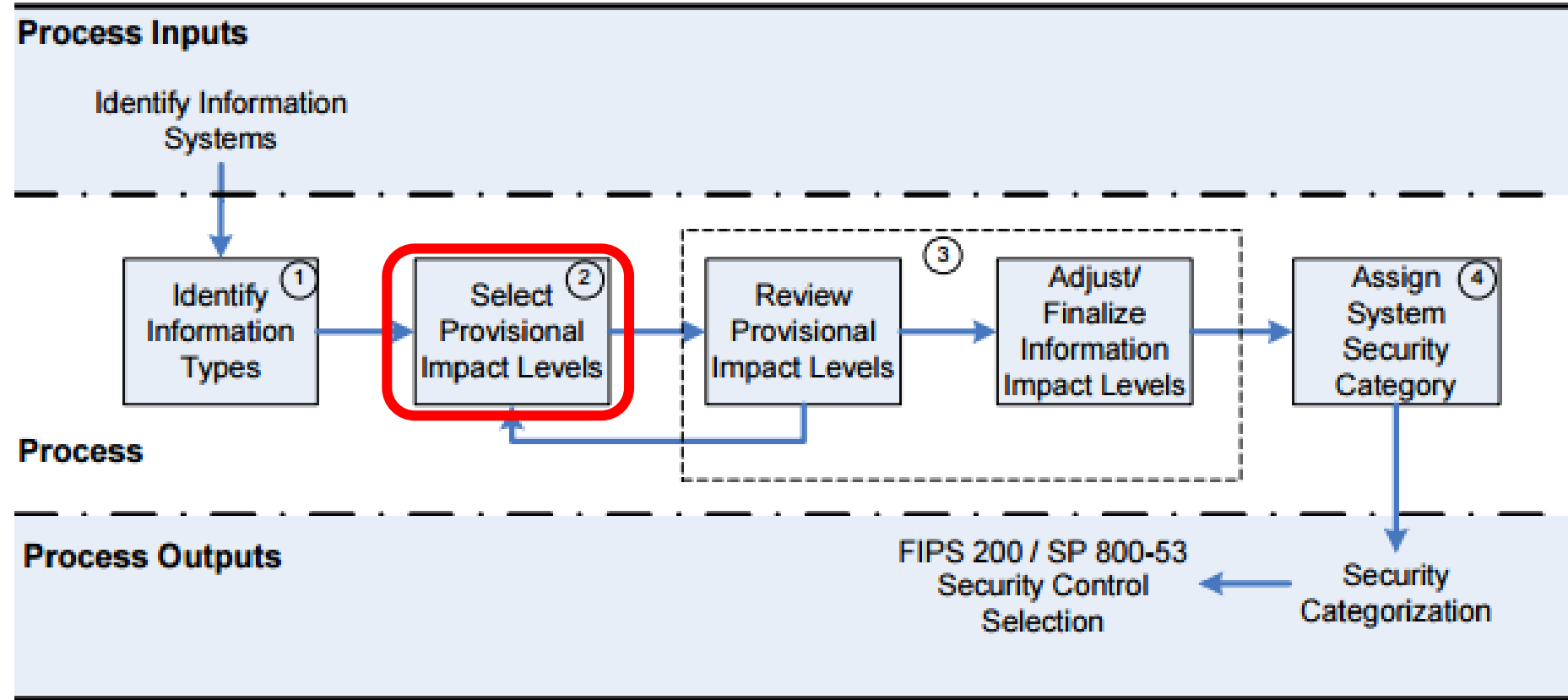


Figure 2: SP 800-60 Security Categorization Process Execution



Volume II: Appendices to
Guide for Mapping Types of
Information and Information
Systems to Security Categories

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Disaster Management Information Types

APPENDIX D: IMPACT DETERMINATION FOR MISSION-BASED INFORMATION AND INFORMATION SYSTEMS.....	102
D.1 Defense and National Security	107
D.2 Homeland Security.....	108
D.2.1 Border and Transportation Security Information Type	108
D.2.2 Key Asset and Critical Infrastructure Protection Information Type.....	110
D.2.3 Catastrophic Defense Information Type.....	111
D.2.4 Executive Functions of the Executive Office of the President (EOP) Information Type	112
D.3 Intelligence Operations.....	113
D.4 Disaster Management	115
D.4.1 Disaster Monitoring and Prediction Information Type.....	116
D.4.2 Disaster Preparedness and Planning Information Type	117
D.4.3 Disaster Repair and Restoration Information Type	118
D.4.4 Emergency Response Information Type.....	119



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Disaster Management Information Impact

D.4 Disaster Management

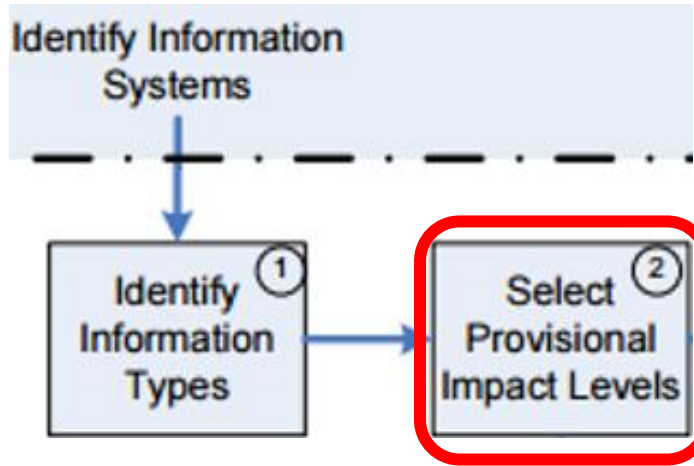
Disaster management involves the activities required to prepare for, mitigate, respond to, and repair the effects of all physical and humanitarian disasters whether natural or man-made. Compromise of much information associated with any of the missions within the disaster management mission area may seriously impact the security of a broad range of critical infrastructures and key national assets.

Can you use...

- [NIST SP 800-60 V.2 R1](#) to determine the Impact Levels for the Disaster Information Types ?

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	?	?	?	
Disaster Preparedness and Planning	?	?	?	
Disaster Repair and Restoration	?	?	?	
Emergency Response Information Type	?	?	?	

Disaster Management Information Types



D.4.1 Disaster Monitoring and Prediction Information Type

Disaster monitoring and prediction involves the actions taken to predict when and where a disaster may take place and communicate that information to affected parties. [Some disaster management information occurs in humanitarian aid systems under the International Affairs and Commerce line of business (e.g., State Department disaster preparedness and planning).] The recommended provisional categorization of the disaster monitoring and protection information type follows:

Security Category = {(confidentiality, Low), (integrity, High), (availability, High)}

D.4.2 Disaster Preparedness and Planning Information Type

Disaster preparedness and planning involves the development of response programs to be used in case of a disaster. This involves the development of emergency management programs and activities as well as staffing and equipping regional response centers. The recommended provisional categorization of the disaster preparedness and planning information type follows:

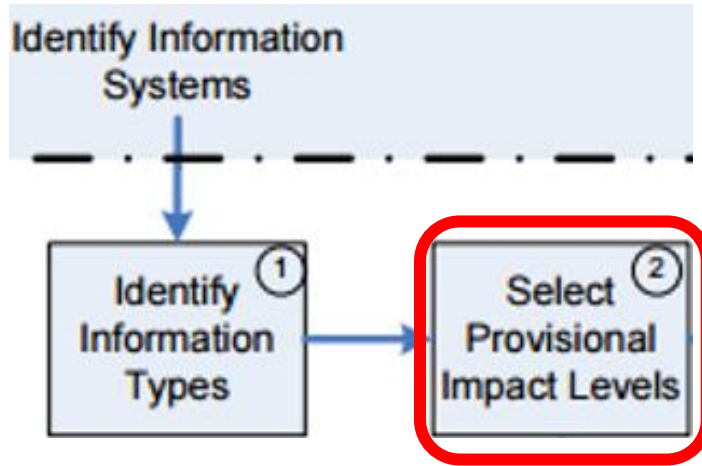
Security Category = {(confidentiality, Low), (integrity, Low), (availability, Low)}

D.4.3 Disaster Repair and Restoration Information Type

Disaster repair and restoration involves the cleanup and restoration activities that take place after a disaster. This involves the cleanup and rebuilding of any homes, buildings, roads, environmental resources, or infrastructure that may be damaged due to a disaster. The recommended provisional categorization of the disaster repair and restoration information type follows:

Security Category = {(confidentiality, Low), (integrity, Low), (availability, Low)}

Disaster Management Information Types



D.4.4 Emergency Response Information Type

Emergency Response involves the immediate actions taken to respond to a disaster (e.g., wildfire management). These actions include providing mobile telecommunications, operational support, power generation, search and rescue, and medical life saving actions. Impacts to emergency response information and the information systems that process and store emergency response information could result in negative impacts on cross-jurisdictional coordination within the critical emergency services infrastructure and the general effectiveness of organizations tasked with emergency response missions. The recommended provisional categorization of the emergency response information type follows:

Security Category = {(confidentiality, Low), (integrity, High), (availability, High)}

Question

- *Can you determine Summary Impact Levels for Disaster Information Types ?*

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	?
Disaster Preparedness and Planning	Low	Low	Low	?
Disaster Repair and Restoration	Low	Low	Low	?
Emergency Response Information Type	Low	High	High	?

Answer...

- *Summary Impact Levels for the Disaster Information Types*

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	High
Disaster Preparedness and Planning	Low	Low	Low	Low
Disaster Repair and Restoration	Low	Low	Low	Low
Emergency Response Information Type	Low	High	High	High

Question -

- *Can you determine Overall Impact Levels for Disaster Information Types?*

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	High
Disaster Preparedness and Planning	Low	Low	Low	Low
Disaster Repair and Restoration	Low	Low	Low	Low
Emergency Response Information Type	Low	High	High	High
Information System Impact Ratings:	?	?	?	

Answer

- *Overall Impact Levels for the Disaster Information Types*

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	High
Disaster Preparedness and Planning	Low	Low	Low	Low
Disaster Repair and Restoration	Low	Low	Low	Low
Emergency Response Information Type	Low	High	High	High
Information System Impact Ratings:	Low	High	High	

Question

- *Can you determine overall Impact Level of a system of Disaster Information Systems ?*

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	High
Disaster Preparedness and Planning	Low	Low	Low	Low
Disaster Repair and Restoration	Low	Low	Low	Low
Emergency Response Information Type	Low	High	High	High
Information System Impact Ratings:	Low	High	High	?

Answer

- *Overall Impact Level of Disaster Information Systems*

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	High
Disaster Preparedness and Planning	Low	Low	Low	Low
Disaster Repair and Restoration	Low	Low	Low	Low
Emergency Response Information Type	Low	High	High	High
Information System Impact Ratings:	Low	High	High	High



3. Adjust Information Impact Level

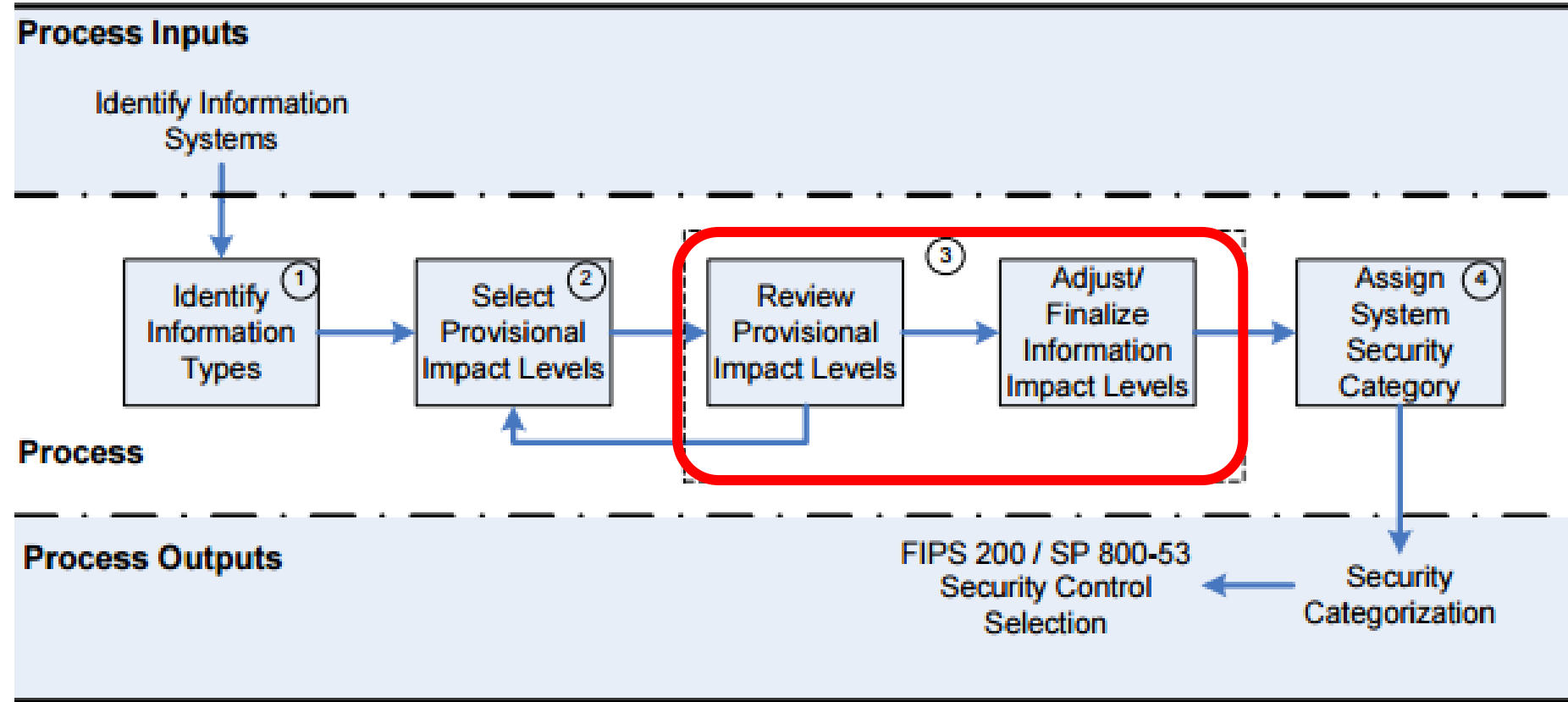


Figure 2: SP 800-60 Security Categorization Process Execution

To adjust preliminary impact levels...

Use [NIST SP 800 60 V2R1](#)

- ...looking at the “**Special Factors**” affecting CIA impact levels for each Disaster Management information type
- How might we adjust the impact levels ?

Disaster Management Information Systems				
Information Types	Confidentiality	Integrity	Availability	Summary Impact Level
Disaster Monitoring and Prediction	Low	High	High	High
Disaster Preparedness and Planning	Low	Low	Low	Low
Disaster Repair and Restoration	Low	Low	Low	Low
Emergency Response Information Type	Low	High	High	High
Information System Impact Ratings:	Low	High	High	High



2. Select Provisional Impact Levels for the identified information system

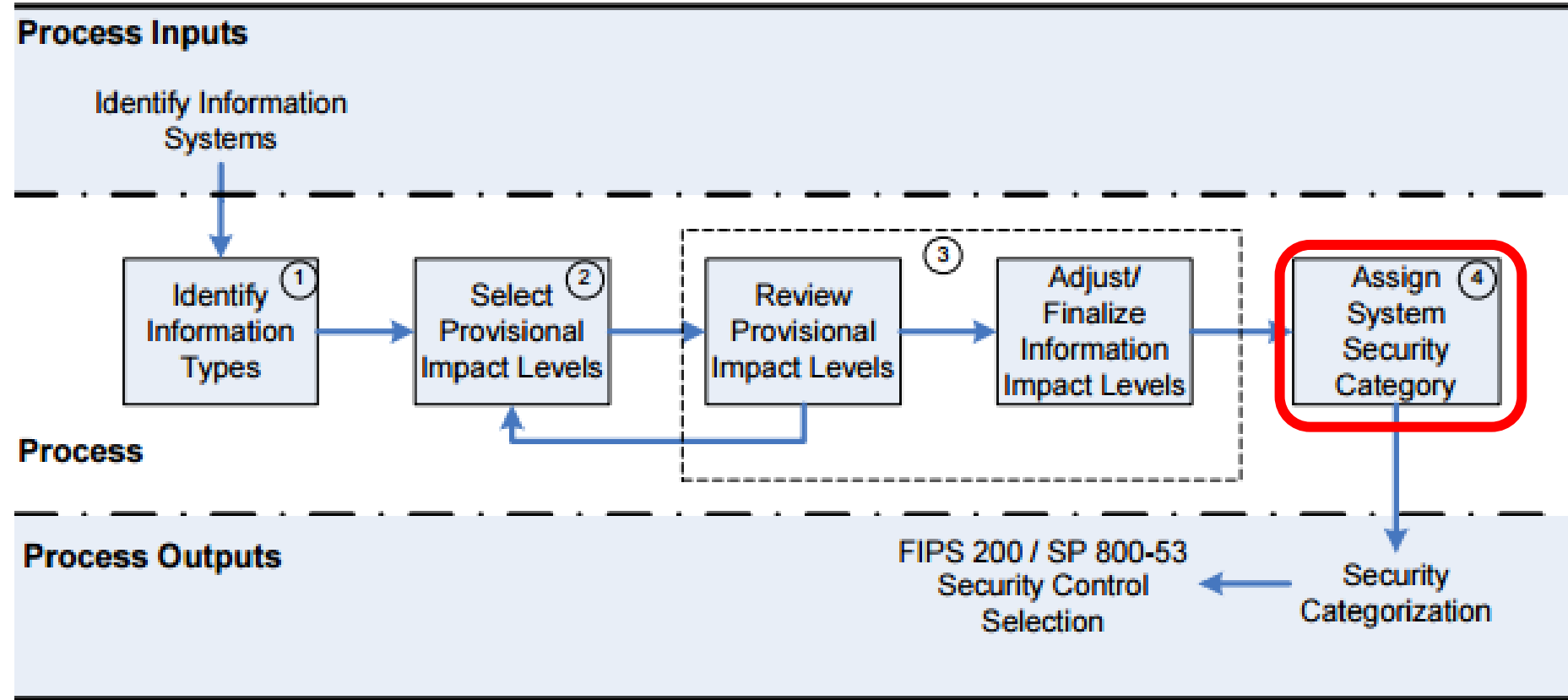


Figure 2: SP 800-60 Security Categorization Process Execution

Exercise: How would you approach assessing the completeness (breadth & depth) of the Generic Information Security Policy example?

MIS
MANAGEMENT INFORMATION SYSTEMS

Security Architecture

MIS 5214.001 ■ Spring 2021 ■ David Lanter

HOME PAGE | INSTRUCTOR | SYLLABUS | SCHEDULE | DELIVERABLES | HARVARD COURSEPACK | GRADEBOOK

First Half of the Semester	Second Half of the Semester
Unit 01 - Threat Environment	Unit 02 - System Security Plan
	Unit 03 - Planning and Policy
	Unit 04 - Cryptography
	Unit 05 - Secure Networks
	Unit 06 - Firewalls
	Unit 07 - Mid-Term Exam

Unit 03 – Planning

Readings:

- Boyle and Panko, Chapter 2 Planning and Policy
- NIST SP 800-100 "Information Security Handbook: A Guide for M Security Planning, pp.67-77
- NIST SP800-60V1R1: "Guide for Mapping Types of Information ar to Security Categories", pp.1-34
- FIPS 200 "Minimum Security Requirements for Federal Informati Systems", pp.1-9

References:

- FIPS Publication 199 "Standards for Security Categorization of Federal Information and Information Systems"
- NIST SP800-60V2R1: "Appendices to Guide for Mapping Types of Information and Information Systems to Security Categories"

Exercise 1:

- Generic Information Security Policy Example

How would you approach assessing the completeness (breadth and depth) of the Generic Information Security Policy example?

Information Security Policy

Purpose:

The purpose of this Policy is to establish the requirements and management expectations for protecting the organization's Confidential information systems and assets.

Applies to:

All computer and network systems, software, and paper files owned by and/or administered by the Organization. (Computer and network systems include, but are not limited to, the following items owned or leased by the Organization, and used by the Organization personnel for information access: servers, storage systems, personal or laptop computers, network equipment, telecommunications systems and mobile devices. Software includes operating systems, databases, and applications, whether developed by the Organization or purchased from software vendors, or shareware/freeware in use within production systems), all Organization employees worldwide, except where compliance with this policy would violate any law or regulation in the country where the subject is located, and components listed above that are managed or administered by third parties for the organization. Third parties include consultants, contractors, temporary workers, service providers, or business partners who access company system resources.

Definitions:

Please refer to Information Security Policies or Standards Definition, Organization *Definitions Policy* for applicable definitions.

Policy:

- I. **Security Program Management:**
 - A. Information Security Program
 - a. This Information Security Policy outlines the responsibilities and expectations for security of information assets and information owned, held or licensed by the Organization. The controls described in this Policy are collectively known as the Organization's Information Security Program, which is designed to reflect the Company's business objectives, prevent the unauthorized use of or access to our information and information systems, and maintain the confidentiality, integrity, availability and resilience of information.
 - b. The Policy is guided by business and regulatory requirements specific to our business, and industry standards for information security and privacy. Specific business projects may require compliance with specific standards or directives pertinent to special categories, sensitive or classified information. A list of applicable laws, directives, and standards is maintained by the Policy owner.
 - c. The Information Security Policy describes the general controls and requirements for all areas of the Program, but references and links to other documents provide a greater level of detail. These documents, and the Enterprise Policy Manual, are part of the terms and conditions of employment with Organization and are acknowledged at the time of initial employment and annually thereafter. External parties, including contractors, consultants, or temporary personnel working for the Organization, must be provided with this Policy, and

Teams in Breakout Rooms

- How would you approach assessing the completeness (breadth & depth) of the Generic Information Security Policy example, assuming it is the only such policy the firm has?

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Information Security Control Families of NIST SP 800-53/800-53A grouped within 3 classes of NIST SP 800-18 provide a good framework for assessing completeness of Information Security Policies and controls

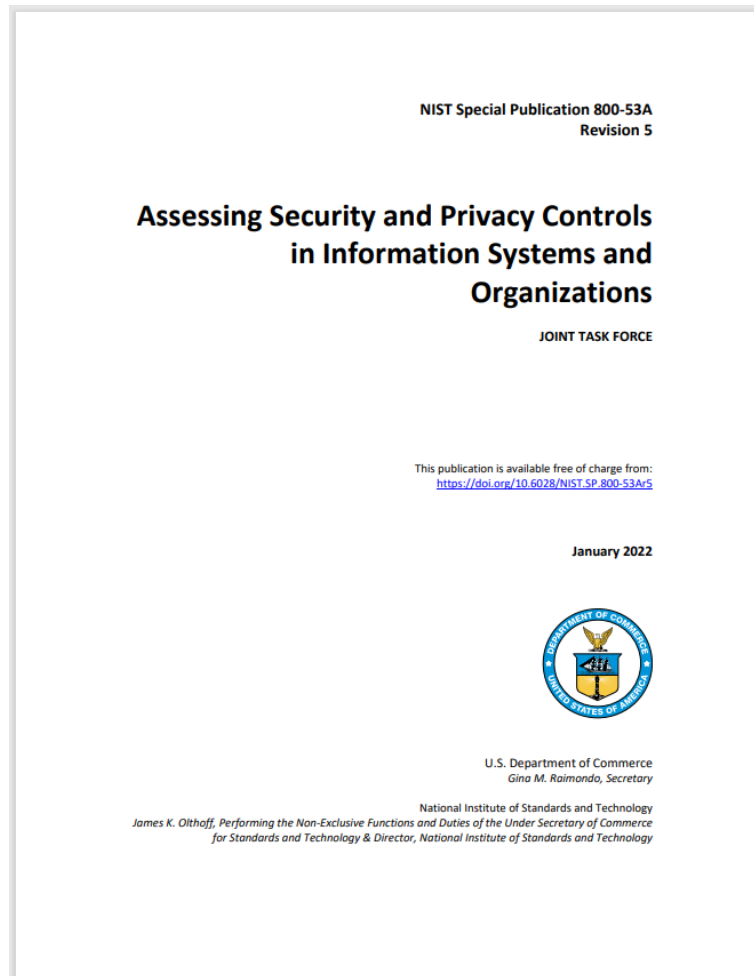
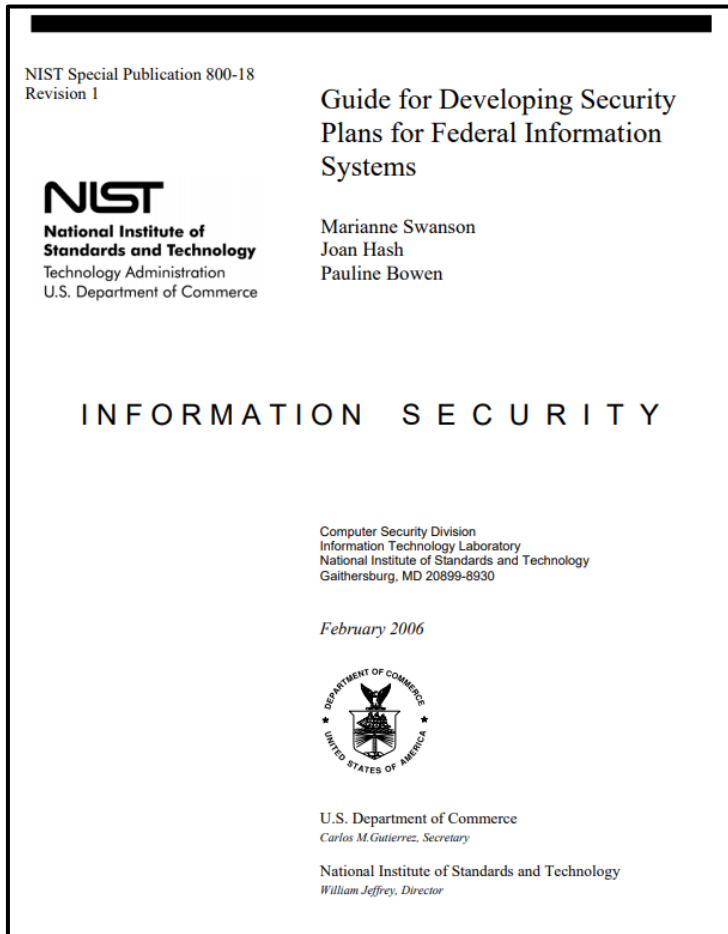


Table of Contents

CHAPTER ONE INTRODUCTION	1
1.1 PURPOSE AND APPLICABILITY	1
1.2 TARGET AUDIENCE	4
1.3 RELATED PUBLICATIONS AND ASSESSMENT PROCESSES	4
1.4 ORGANIZATION OF THIS PUBLICATION	5
CHAPTER TWO THE FUNDAMENTALS	6
2.1 ASSESSMENTS WITHIN THE SYSTEM DEVELOPMENT LIFE CYCLE	6
2.2 CONTROL STRUCTURE AND ORGANIZATION	7
2.3 BUILDING AN EFFECTIVE ASSURANCE CASE	8
2.4 ASSESSMENT PROCEDURES: ASSESSMENT OBJECTS, METHODS AND OBJECTIVES.....	11
CHAPTER THREE THE PROCESS	19
3.1 PREPARE FOR SECURITY AND PRIVACY CONTROL ASSESSMENTS	19
3.2 DEVELOP SECURITY AND PRIVACY ASSESSMENT PLANS.....	23
3.3 CONDUCT SECURITY AND PRIVACY CONTROL ASSESSMENTS	30
3.4 ANALYZE ASSESSMENT REPORT RESULTS.....	32
3.5 ASSESS SECURITY AND PRIVACY CAPABILITIES	34
CHAPTER FOUR SECURITY AND PRIVACY ASSESSMENT PROCEDURES	37
4.1 ACCESS CONTROL	40
4.2 AWARENESS AND TRAINING	118
4.3 AUDIT AND ACCOUNTABILITY	128
4.4 ASSESSMENT, AUTHORIZATION, AND MONITORING	160
4.5 CONFIGURATION MANAGEMENT	177
4.6 CONTINGENCY PLANNING.....	215
4.7 IDENTIFICATION AND AUTHENTICATION	243
4.8 INCIDENT RESPONSE	275
4.9 MAINTENANCE	298
4.10 MEDIA PROTECTION	316
4.11 PHYSICAL AND ENVIRONMENTAL PROTECTION	330
4.12 PLANNING	361
4.13 PROGRAM MANAGEMENT	372
4.14 PERSONNEL SECURITY	401
4.15 PERSONALLY IDENTIFIABLE INFORMATION PROCESSING AND TRANSPARENCY	412
4.16 RISK ASSESSMENT	426
4.17 SYSTEM AND SERVICES ACQUISITION	441
4.18 SYSTEM AND COMMUNICATIONS PROTECTION	522
4.19 SYSTEM AND INFORMATION INTEGRITY	599
4.20 SUPPLY CHAIN RISK MANAGEMENT	665
REFERENCES	684
APPENDIX A GLOSSARY	689
APPENDIX B ACRONYMS	705
APPENDIX C ASSESSMENT METHOD DESCRIPTIONS	707
APPENDIX D PENETRATION TESTING	715
APPENDIX E ASSESSMENT REPORTS	718
APPENDIX F ONGOING ASSESSMENT AND AUTOMATION	721

Information Security Control Families of NIST SP 800-53/800-53A grouped within 3 classes of NIST SP 800-18 provide a good framework for assessing completeness of Information Security Policies and controls



CLASS	FAMILY	IDENTIFIER
Management	Risk Assessment	RA
Management	Planning	PL
Management	System and Services Acquisition	SA
Management	Certification, Accreditation, and Security Assessments	CA
Operational	Personnel Security	PS
Operational	Physical and Environmental Protection	PE
Operational	Contingency Planning	CP
Operational	Configuration Management	CM
Operational	Maintenance	MA
Operational	System and Information Integrity	SI
Operational	Media Protection	MP
Operational	Incident Response	IR
Operational	Awareness and Training	AT
Technical	Identification and Authentication	IA
Technical	Access Control	AC
Technical	Audit and Accountability	AU
Technical	System and Communications Protection	SC

Table 2: Security Control Class, Family, and Identifier

Information Security Control Families of NIST SP 800-53/800-53A grouped within 3 Control Classes of NIST SP 800-18 provide a framework for assessing completeness of Information Security Policies and controls

Control Class	Control Family	Implemented	Partial	Planned	Alternate	NA	System	Empty	FedRamp	Completeness?
Management	Risk Assessment	2	5	1	2	1	11		10	
Management	Planning	1	2	1			4	2	6	
Management	System & Service Acquisition						0	22	22	
Management	Security Assessments & Authorization				1		1	14	15	
Technical	Identification & Authentication	9	3	8		9	29		27	
Technical	Access Control	4	3	28	1	13	49		43	
Technical	Audit & Accountability	1	3	13		4	21		19	
Technical	System & Communication Protection	17	8	9	1	5	40		32	
Operational	Personnel Security	6	1			2	9		9	
Operational	Physical & Environmental Protection					19	19	1	20	
Operational	Contingency Planning	1	2	24			27		24	
Operational	Configuration Management	8	6	11		5	30	1	26	
Operational	Maintenance						0	11	11	
Operational	System & Information Integrity		5	16		8	33		28	
Operational	Media Protection	2				3	5	7	10	
Operational	Incident Response						0	18	18	
Operational	Awareness & Training			5			5		5	
	Total:	55	38	116	5	69	283	76	325	

Exercise

Using NIST SP 800-60, find a preliminary categorization for the following information system and adjust the categorization based on your analysis – present justifications for both preliminary and adjusted categorizations

Purpose: The system has two overarching purposes:

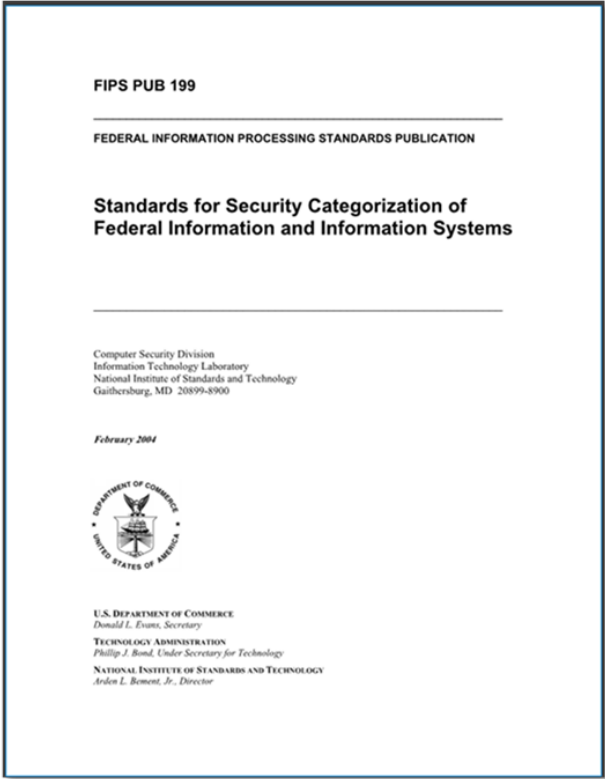
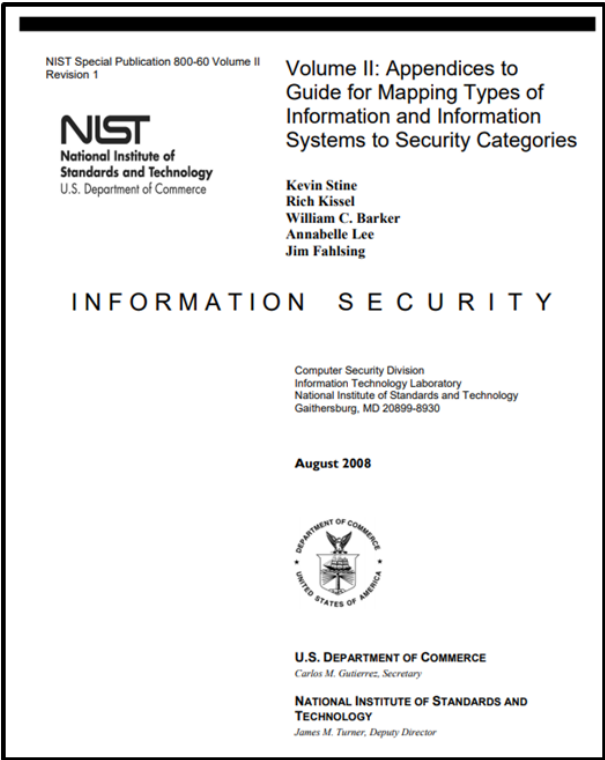
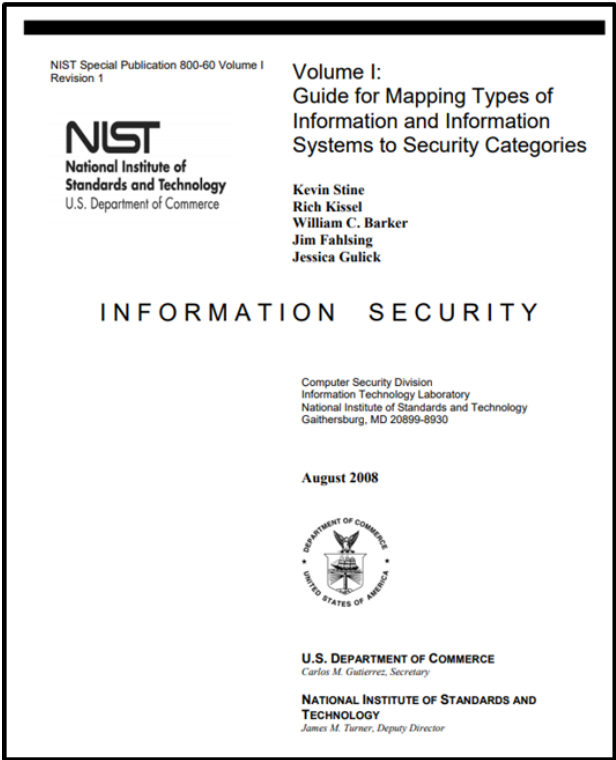
1. For clients it is a system intended to help understand sewage and storm water collection and treatment systems (i.e. pipe networks, pump stations, and treatment plants) and their capacities, overflow characteristics and controls
2. For the firm the system is intended to provide revenue through pay by clients for direct use of the service(s) of the system

Users:

1. Municipal and regional water and sewer utilities and governmental organizations and the contractors that support them will use the system to help plan capital improvement, operations, and maintenance of sewer systems (i.e. treatment plants and sewage collection networks)

Below is a preliminary categorization for the information system based on NIST SP 800-60 Vol

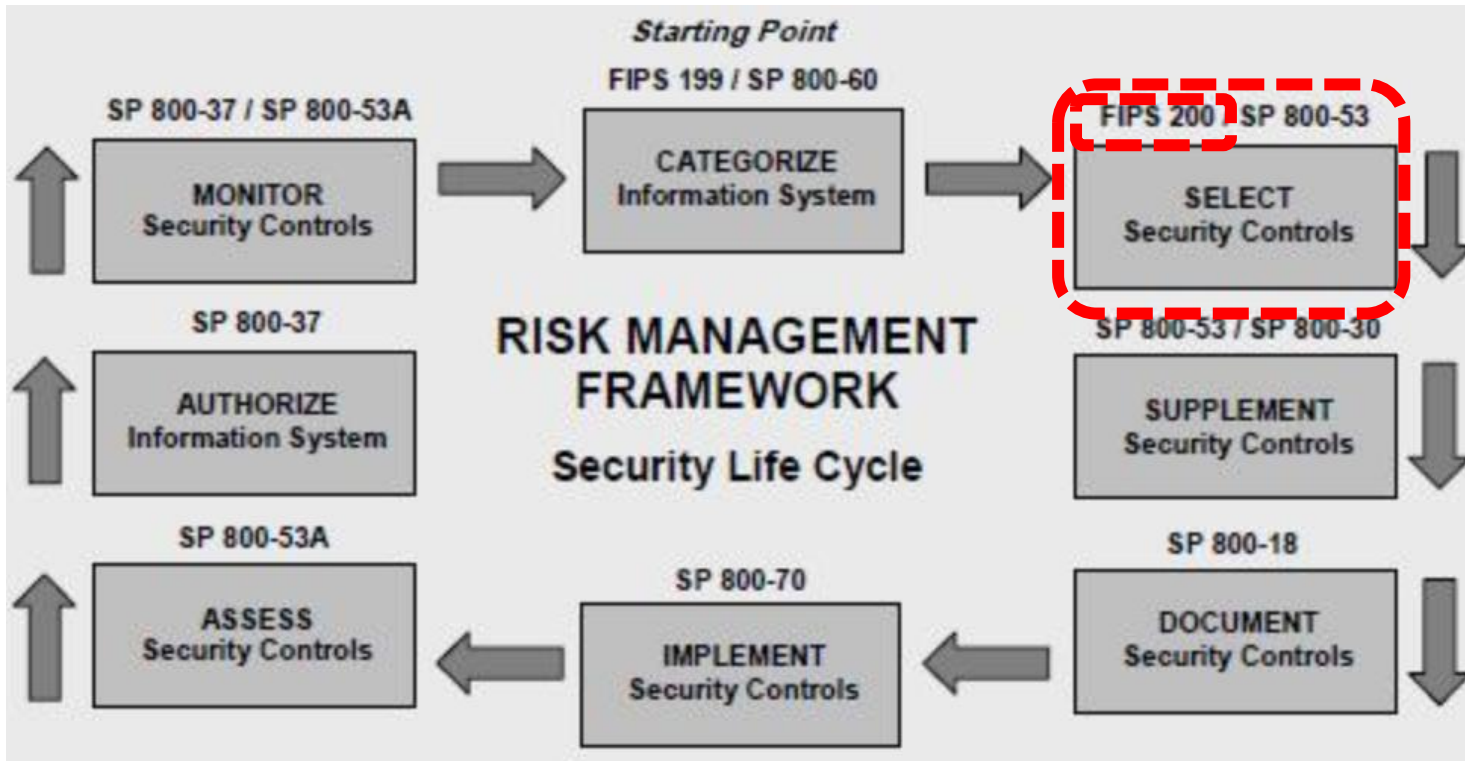
Business Area	Information Type ID	Information Type	Confidentiality	Integrity	Availability	Information Type Categorization	Sub-System Categorization	System Categorization
Environmental Management	D.8.3	Pollution Prevention and Control	Low	Low	Low	Low	Low	Moderate
Public Goods Creation & Management	D.22.3	Public Resources, Facility and Infrastructure Management	Low	Low	Low	Low		
		Tenant Data	Low	Low	Low	Low		
Information & Technology Management	C.3.5.5	Information Security	Low	Moderate	Low	Moderate	Moderate	
Information & Technology Management	C.3.5.6	Record Retention	Low	Low	Low	Low		
Information & Technology Management	C.3.5.7	Information Management	Low	Moderate	Low	Moderate		
Information & Technology Management	C.3.5.8	System and Network Monitoring	Moderate	Moderate	Low	Moderate		
System Data			Moderate	Moderate	Low	Moderate		



Agenda

- ✓ Risk Management Framework and IS Security Categorization
- ✓ Mapping Information Types to Security Categorizations
- ✓ *Team Exercise – Determine Information and Information System Types and provisional security categorization*
- Security Control Baselines – review
 - Minimum Security Controls and Security Control Baselines
 - Security Control Families
- Risk Assessment Controls
- *Team Exercise Find and assess risk assessment policy*

Risk Management Framework



FIPS PUB 200

FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATION

Minimum Security Requirements for Federal Information and Information Systems

Computer Security Division
Information Technology Laboratory
National Institute of Standards and Technology
Gaithersburg, MD 20899-8930

March 2006



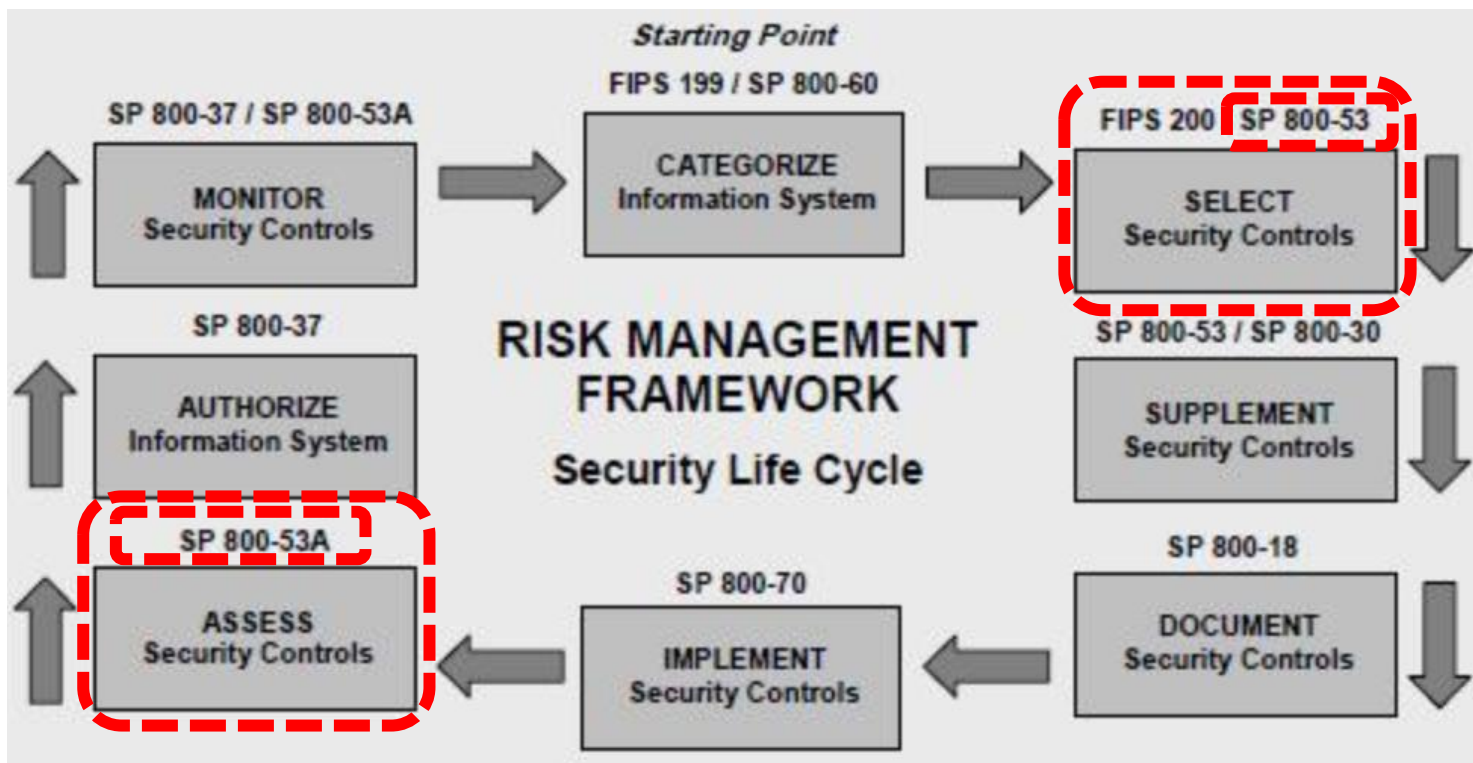
U.S. DEPARTMENT OF COMMERCE
Carlos M. Gutierrez, Secretary

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
William Jeffrey, Director

Minimum Security Control Requirements

1. Access Control (AC)
2. Awareness and Training (AT)
3. Audit and Accountability (AU)
4. Certification, Accreditation, and Security Assessment (CA)
5. Configuration Management (CM)
6. Contingency Planning
7. Identification and Authentication
8. Incident Response (IR)
9. Maintenance (MA)
10. Media Protection (MP)
11. Physical and Environmental Protection *PE)
12. Planning (PL)
13. Personal Security (PS)
14. Risk Assessment (RA)
15. System and Services Acquisition(SA)
16. System and Communications Protection (SC)
17. System and Information Integrity (SI)

Risk Management Framework



NIST Special Publication 800-53
Revision 5

Security and Privacy Controls for Information Systems and Organizations

NIST Special Publication 800-53A
Revision 5

JOINT TASK FORCE

Assessing Security and Privacy Controls in Information Systems and Organizations

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September 2020
OF 12-10-2020; SEE PAGE XVII

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

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January 2022

DEPARTMENT OF COMMERCE
UNITED STATES OF AMERICA

Department of Commerce
Gina M. Raimondo, Secretary

Standards and Technology
James K. Olthoff, Performing the Non-Exclusive Functions and Duties of the Under Secretary of Commerce for Standards and Technology & Director, National Institute of Standards and Technology

NIST Special Publication 800-53B

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October 2020

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U.S. Department of Commerce
Wilbur L. Ross, Jr., Secretary

National Institute of Standards and Technology
Walter Copan, NIST Director and Under Secretary of Commerce for Standards and Technology

Table of Contents

CHAPTER ONE INTRODUCTION.....	1
1.1 PURPOSE AND APPLICABILITY	1
1.2 TARGET AUDIENCE	2
1.3 ORGANIZATIONAL RESPONSIBILITIES.....	2
1.4 RELATIONSHIP TO OTHER PUBLICATIONS.....	3
1.5 REVISIONS AND EXTENSIONS	3
1.6 PUBLICATION ORGANIZATION	3
CHAPTER TWO THE FUNDAMENTALS.....	5
2.1 CONTROL BASELINES	5
2.2 SELECTING CONTROL BASELINES.....	6
2.3 CONTROL BASELINE ASSUMPTIONS.....	8
2.4 TAILORING CONTROL BASELINES	9
2.5 CAPABILITIES.....	14
CHAPTER THREE THE CONTROL BASELINES	15
3.1 ACCESS CONTROL FAMILY	16
3.2 AWARENESS AND TRAINING FAMILY	20
3.3 AUDIT AND ACCOUNTABILITY FAMILY	21
3.4 ASSESSMENT, AUTHORIZATION, AND MONITORING FAMILY	23
3.5 CONFIGURATION MANAGEMENT FAMILY.....	24
3.6 CONTINGENCY PLANNING FAMILY	26
3.7 IDENTIFICATION AND AUTHENTICATION FAMILY	28
3.8 INCIDENT RESPONSE FAMILY	30
3.9 MAINTENANCE FAMILY.....	32
3.10 MEDIA PROTECTION FAMILY.....	33
3.11 PHYSICAL AND ENVIRONMENTAL PROTECTION FAMILY	34
3.12 PLANNING FAMILY.....	36
3.13 PROGRAM MANAGEMENT FAMILY	37
3.14 PERSONNEL SECURITY FAMILY	39
3.15 PERSONALLY IDENTIFIABLE INFORMATION PROCESSING AND TRANSPARENCY FAMILY	40
3.16 RISK ASSESSMENT FAMILY	41
3.17 SYSTEM AND SERVICES ACQUISITION FAMILY	42
3.18 SYSTEM AND COMMUNICATIONS PROTECTION FAMILY	46
3.19 SYSTEM AND INFORMATION INTEGRITY FAMILY.....	51
3.20 SUPPLY CHAIN RISK MANAGEMENT FAMILY.....	55
REFERENCES	56
APPENDIX A GLOSSARY.....	59
APPENDIX B ACRONYMS.....	66
APPENDIX C OVERLAYS	67



<https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-53B.pdf>

What kind of control is Planning ?

NIST Special Publication 800-18
Revision 1

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


Guide for Developing Security
Plans for Federal Information
Systems

Marianne Swanson
Joan Hash
Pauline Bowen

INFORMATION SECURITY

Computer Security Division
Information Technology Laboratory
National Institute of Standards and Technology
Gaithersburg, MD 20899-8930

February 2006



U.S. Department of Commerce
Carlos M. Gutierrez, Secretary

National Institute of Standards and Technology
William Jeffrey, Director

CLASS	FAMILY	IDENTIFIER
Management	Risk Assessment	RA
Management	Planning	PL
Management	System and Services Acquisition	SA
Management	Certification, Accreditation, and Security Assessments	CA
Operational	Personnel Security	PS
Operational	Physical and Environmental Protection	PE
Operational	Contingency Planning	CP
Operational	Configuration Management	CM
Operational	Maintenance	MA
Operational	System and Information Integrity	SI
Operational	Media Protection	MP
Operational	Incident Response	IR
Operational	Awareness and Training	AT
Technical	Identification and Authentication	IA
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Technical	Audit and Accountability	AU
Technical	System and Communications Protection	SC

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U.S. Department of Commerce
Wilbur L. Ross, Jr., Secretary

National Institute of Standards and Technology
Walter Copan, NIST Director and Under Secretary of Commerce for Standards and Technology

TABLE 3-12: PLANNING FAMILY

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	X	X	X	X
PL-2	System Security and Privacy Plans	X	X	X	X
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	X	X	X	X
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	X	X	X	X
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	X		X	X
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	X			
PL-10	Baseline Selection		X	X	X
PL-11	Baseline Tailoring		X	X	X

<https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-53B.pdf>

PL-01	POLICY AND PROCEDURES
ASSESSMENT OBJECTIVE: <i>Determine if:</i>	
PL-01_ODP[01]	personnel or roles to whom the planning policy is to be disseminated is/are defined;
PL-01_ODP[02]	personnel or roles to whom the planning procedures are to be disseminated is/are defined;
PL-01_ODP[03]	one or more of the following PARAMETER VALUES is/are selected: {organization-level; mission/business process-level; system-level};
PL-01_ODP[04]	an official to manage the planning policy and procedures is defined;
PL-01_ODP[05]	the frequency with which the current planning policy is reviewed and updated is defined;
PL-01_ODP[06]	events that would require the current planning policy to be reviewed and updated are defined;
PL-01_ODP[07]	the frequency with which the current planning procedures are reviewed and updated is defined;
PL-01_ODP[08]	events that would require procedures to be reviewed and updated are defined;
PL-01a.[01]	a planning policy is developed and documented.
PL-01a.[02]	the planning policy is disseminated to <PL-01_ODP[01] personnel or roles>;
PL-01a.[03]	planning procedures to facilitate the implementation of the planning policy and associated planning controls are developed and documented;
PL-01a.[04]	the planning procedures are disseminated to <PL-01_ODP[02] personnel or roles>;
PL-01a.01(a)[01]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses purpose;
PL-01a.01(a)[02]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses scope;
PL-01a.01(a)[03]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses roles;
PL-01a.01(a)[04]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses responsibilities;
PL-01a.01(a)[05]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses management commitment;
PL-01a.01(a)[06]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses coordination among organizational entities;
PL-01a.01(a)[07]	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy addresses compliance;
PL-01a.01(b)	the <PL-01_ODP[03] SELECTED PARAMETER VALUE(S)> planning policy is consistent with applicable laws, Executive Orders, directives, regulations, policies, standards, and guidelines;


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Revision 5

Assessing Security and Privacy Controls in Information Systems and Organizations

JOINT TASK FORCE

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January 2022



U.S. Department of Commerce
Gina M. Raimondo, Secretary

National Institute of Standards and Technology
James K. Othoff, Performing the Non-Exclusive Functions and Duties of the Under Secretary of Commerce for Standards and Technology & Director, National Institute of Standards and Technology

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	x		x	x
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	x			
PL-10	Baseline Selection		x	x	x
PL-11	Baseline Tailoring		x	x	x

PL-01	POLICY AND PROCEDURES	
PL-01b.		the <PL-01_ODP[04] official> is designated to manage the development, documentation, and dissemination of the planning policy and procedures;
PL-01c.01[01]		the current planning policy is reviewed and updated <PL-01_ODP[05] frequency>;
PL-01c.01[02]		the current planning policy is reviewed and updated following <PL-01_ODP[06] events>;
PL-01c.02[01]		the current planning procedures are reviewed and updated <PL-01_ODP[07] frequency>;
PL-01c.02[02]		the current planning procedures are reviewed and updated following <PL-01_ODP[08] events>.
POTENTIAL ASSESSMENT METHODS AND OBJECTS:		
PL-01-Examine		[SELECT FROM: Planning policy and procedures; system security plan; privacy plan; other relevant documents or records]
PL-01-Interview		[SELECT FROM: Organizational personnel with planning responsibilities; organizational personnel with information security and privacy responsibilities].

ODP = Organizational-defined parameters

PL-02	SYSTEM SECURITY AND PRIVACY PLANS	
ASSESSMENT OBJECTIVE: <i>Determine if:</i>		
PL-02_ODP[01]	<i>Individuals or groups with whom security and privacy-related activities affecting the system that require planning and coordination is/are assigned;</i>	
PL-02_ODP[02]	<i>personnel or roles to receive distributed copies of the system security and privacy plans is/are assigned;</i>	
PL-02_ODP[03]	<i>frequency to review system security and privacy plans is defined;</i>	
PL-02a.01[01]	a security plan for the system is developed that is consistent with the organization's enterprise architecture;	
PL-02a.01[02]	a privacy plan for the system is developed that is consistent with the organization's enterprise architecture;	
PL-02a.02[01]	a security plan for the system is developed that explicitly defines the constituent system components;	
PL-02a.02[02]	a privacy plan for the system is developed that explicitly defines the constituent system components;	
PL-02a.03[01]	a security plan for the system is developed that describes the operational context of the system in terms of mission and business processes;	
PL-02a.03[02]	a privacy plan for the system is developed that describes the operational context of the system in terms of mission and business processes;	
PL-02a.04[01]	a security plan for the system is developed that identifies the individuals that fulfill system roles and responsibilities;	
PL-02a.04[02]	a privacy plan for the system is developed that identifies the individuals that fulfill system roles and responsibilities;	

PL-02a.05[01]	a security plan for the system is developed that identifies the information types processed, stored, and transmitted by the system;
PL-02a.05[02]	a privacy plan for the system is developed that identifies the information types processed, stored, and transmitted by the system;
PL-02a.06[01]	a security plan for the system is developed that provides the security categorization of the system, including supporting rationale;
PL-02a.06[02]	a privacy plan for the system is developed that provides the security categorization of the system, including supporting rationale;
PL-02a.07[01]	a security plan for the system is developed that describes any specific threats to the system that are of concern to the organization;
PL-02a.07[02]	a privacy plan for the system is developed that describes any specific threats to the system that are of concern to the organization;
PL-02a.08[01]	a security plan for the system is developed that provides the results of a privacy risk assessment for systems processing personally identifiable information;
PL-02a.08[02]	a privacy plan for the system is developed that provides the results of a privacy risk assessment for systems processing personally identifiable information;
PL-02a.09[01]	a security plan for the system is developed that describes the operational environment for the system and any dependencies on or connections to other systems or system components;
PL-02a.09[02]	a privacy plan for the system is developed that describes the operational environment for the system and any dependencies on or connections to other systems or system components;
PL-02a.10[01]	a security plan for the system is developed that provides an overview of the security requirements for the system;
PL-02a.10[02]	a privacy plan for the system is developed that provides an overview of the privacy requirements for the system;
PL-02a.11[01]	a security plan for the system is developed that identifies any relevant control baselines or overlays, if applicable;
PL-02a.11[02]	a privacy plan for the system is developed that identifies any relevant control baselines or overlays, if applicable;
PL-02a.12[01]	a security plan for the system is developed that describes the controls in place or planned for meeting the security requirements, including rationale for any tailoring decisions;
PL-02a.12[02]	a privacy plan for the system is developed that describes the controls in place or planned for meeting the privacy requirements, including rationale for any tailoring decisions;
PL-02a.13[01]	a security plan for the system is developed that includes risk determinations for security architecture and design decisions;
PL-02a.13[02]	a privacy plan for the system is developed that includes risk determinations for privacy architecture and design decisions;
PL-02a.14[01]	a security plan for the system is developed that includes security-related activities affecting the system that require planning and coordination with <PL-02_ODP[01] individuals or groups>;

PL-02	SYSTEM SECURITY AND PRIVACY PLANS	
PL-02a.14[02]	a privacy plan for the system is developed that includes privacy-related activities affecting the system that require planning and coordination with <PL-02_ODP[01] individuals or groups>;	
PL-02a.15[01]	a security plan for the system is developed that is reviewed and approved by the authorizing official or designated representative prior to plan implementation;	
PL-02a.15[02]	a privacy plan for the system is developed that is reviewed and approved by the authorizing official or designated representative prior to plan implementation.	
PL-02b.[01]	copies of the plans are distributed to <PL-02_ODP[02] personnel or roles>;	
PL-02b.[02]	subsequent changes to the plans are communicated to <PL-02_ODP[02] personnel or roles>;	
PL-02c.	plans are reviewed <PL-02_ODP[03] frequency>;	
PL-02d.[01]	plans are updated to address changes to the system and environment of operations;	
PL-02d.[02]	plans are updated to address problems identified during the plan implementation;	
PL-02d.[03]	plans are updated to address problems identified during control assessments;	
PL-02e.[01]	plans are protected from unauthorized disclosure;	
PL-02e.[02]	plans are protected from unauthorized modification.	
POTENTIAL ASSESSMENT METHODS AND OBJECTS:		
PL-02-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing system security and privacy plan development and implementation; procedures addressing security and privacy plan reviews and updates; enterprise architecture documentation; system security plan; privacy plan; records of system security and privacy plan reviews and updates; security and privacy architecture and design documentation; risk assessments; risk assessment results; control assessment documentation; other relevant documents or records].	
PL-02-Interview	[SELECT FROM: Organizational personnel with system security and privacy planning and plan implementation responsibilities; system developers; organizational personnel with information security and privacy responsibilities].	
PL-02-Test	[SELECT FROM: Organizational processes for system security and privacy plan development, review, update, and approval; mechanisms supporting the system security and privacy plan].	

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
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PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	x		x	x
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	x			
PL-10	Baseline Selection		x	x	x
PL-11	Baseline Tailoring		x	x	x

PL-04	RULES OF BEHAVIOR
ASSESSMENT OBJECTIVE: <i>Determine if:</i>	
PL-04_ODP[01]	<i>frequency for reviewing and updating the rules of behavior is defined;</i>
PL-04_ODP[02]	<i>one or more of the following PARAMETER VALUES is/are selected: {<PL-04_ODP[03] frequency>; when the rules are revised or updated};</i>
PL-04_ODP[03]	<i>frequency for individuals to read and re-acknowledge the rules of behavior is defined (if selected);</i>
PL-04a.[01]	rules that describe responsibilities and expected behavior for information and system usage, security, and privacy are established for individuals requiring access to the system;
PL-04a.[02]	rules that describe responsibilities and expected behavior for information and system usage, security, and privacy are provided to individuals requiring access to the system;
PL-04b.	before authorizing access to information and the system, a documented acknowledgement from such individuals indicating that they have read, understand, and agree to abide by the rules of behavior is received;
PL-04c.	rules of behavior are reviewed and updated <PL-04_ODP[01] frequency>;
PL-04d.	individuals who have acknowledged a previous version of the rules of behavior are required to read and reacknowledge <PL-04_ODP[02] SELECTED PARAMETER VALUE(S)>.
POTENTIAL ASSESSMENT METHODS AND OBJECTS:	
PL-04-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing rules of behavior for system users; rules of behavior; signed acknowledgements; records for rules of behavior reviews and updates; other relevant documents or records].
PL-04-Interview	[SELECT FROM: Organizational personnel with responsibility for establishing, reviewing, and updating rules of behavior; organizational personnel with responsibility for literacy training and awareness and role-based training; organizational personnel who are authorized users of the system and have signed and resigned rules of behavior; organizational personnel with information security and privacy responsibilities].
PL-04-Test	[SELECT FROM: Organizational processes for establishing, reviewing, disseminating, and updating rules of behavior; mechanisms supporting and/or implementing the establishment, review, dissemination, and update of rules of behavior].

PL-04(01)	RULES OF BEHAVIOR SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	
ASSESSMENT OBJECTIVE: <i>Determine if:</i>		
PL-04(01)(a)	the rules of behavior include restrictions on the use of social media, social networking sites, and external sites/applications;	
PL-04(01)(b)	the rules of behavior include restrictions on posting organizational information on public websites;	
PL-04(01)(c)	the rules of behavior include restrictions on the use of organization-provided identifiers (e.g., email addresses) and authentication secrets (e.g., passwords) for creating accounts on external sites/applications.	
POTENTIAL ASSESSMENT METHODS AND OBJECTS:		
PL-04(01)-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing rules of behavior for system users; rules of behavior; training policy; other relevant documents or records].	
PL-04(01)-Interview	[SELECT FROM: Organizational personnel with responsibility for establishing, reviewing, and updating rules of behavior; organizational personnel with responsibility for literacy training and awareness and role-based training; organizational personnel who are authorized users of the system and have signed rules of behavior; organizational personnel with information security and privacy responsibilities].	
PL-04(01)-Test	[SELECT FROM: Organizational processes for establishing rules of behavior; mechanisms supporting and/or implementing the establishment of rules of behavior].	

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
	Security-Related Action Plans	W: Incorporated into P...			

PL-04	RULES OF BEHAVIOR
ASSESSMENT OBJECTIVE: <i>Determine if:</i>	
PL-04_ODP[01]	<i>frequency for reviewing and updating the rules of behavior is defined;</i>
PL-04_ODP[02]	<i>one or more of the following PARAMETER VALUES is/are selected: {<PL-04_ODP[03] frequency>; when the rules are revised or updated};</i>
PL-04_ODP[03]	<i>frequency for individuals to read and re-acknowledge the rules of behavior is defined (if selected);</i>
PL-04a.[01]	rules that describe responsibilities and expected behavior for information and system usage, security, and privacy are established for individuals requiring access to the system;
PL-04a.[02]	rules that describe responsibilities and expected behavior for information and system usage, security, and privacy are provided to individuals requiring access to the system;
PL-04b.	before authorizing access to information and the system, a documented acknowledgement from such individuals indicating that they have read, understand, and agree to abide by the rules of behavior is received;
PL-04c.	rules of behavior are reviewed and updated <PL-04_ODP[01] frequency>;
PL-04d.	individuals who have acknowledged a previous version of the rules of behavior are required to read and reacknowledge <PL-04_ODP[02] SELECTED PARAMETER VALUE(S)>.
POTENTIAL ASSESSMENT METHODS AND OBJECTS:	
PL-04-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing rules of behavior for system users; rules of behavior; signed acknowledgements; records for rules of behavior reviews and updates; other relevant documents or records].
PL-04-Interview	[SELECT FROM: Organizational personnel with responsibility for establishing, reviewing, and updating rules of behavior; organizational personnel with responsibility for literacy training and awareness and role-based training; organizational personnel who are authorized users of the system and have signed and resigned rules of behavior; organizational personnel with information security and privacy responsibilities].
PL-04-Test	[SELECT FROM: Organizational processes for establishing, reviewing, disseminating, and updating rules of behavior; mechanisms supporting and/or implementing the establishment, review, dissemination, and update of rules of behavior].

PL-04(01)	RULES OF BEHAVIOR SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	
ASSESSMENT OBJECTIVE: <i>Determine if:</i>		
PL-04(01)(a)	the rules of behavior include restrictions on the use of social media, social networking sites, and external sites/applications;	
PL-04(01)(b)	the rules of behavior include restrictions on posting organizational information on public websites;	
PL-04(01)(c)	the rules of behavior include restrictions on the use of organization-provided identifiers (e.g., email addresses) and authentication secrets (e.g., passwords) for creating accounts on external sites/applications.	
POTENTIAL ASSESSMENT METHODS AND OBJECTS:		
PL-04(01)-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing rules of behavior for system users; rules of behavior; training policy; other relevant documents or records].	
PL-04(01)-Interview	[SELECT FROM: Organizational personnel with responsibility for establishing, reviewing, and updating rules of behavior; organizational personnel with responsibility for literacy training and awareness and role-based training; organizational personnel who are authorized users of the system and have signed rules of behavior; organizational personnel with information security and privacy responsibilities].	
PL-04(01)-Test	[SELECT FROM: Organizational processes for establishing rules of behavior; mechanisms supporting and/or implementing the establishment of rules of behavior].	

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
	Security-Related Action Plans	W: Incorporated into P...			

PL-08	SECURITY AND PRIVACY ARCHITECTURES
ASSESSMENT OBJECTIVE: <i>Determine if:</i>	
PL-08_ODP	<i>frequency for review and update to reflect changes in the enterprise architecture;</i>
PL-08a.01	a security architecture for the system describes the requirements and approach to be taken for protecting the confidentiality, integrity, and availability of organizational information;
PL-08a.02	a privacy architecture describes the requirements and approach to be taken for processing personally identifiable information to minimize privacy risk to individuals;
PL-08a.03[01]	a security architecture for the system describes how the architecture is integrated into and supports the enterprise architecture;
PL-08a.03[02]	a privacy architecture for the system describes how the architecture is integrated into and supports the enterprise architecture;
PL-08a.04[01]	a security architecture for the system describes any assumptions about and dependencies on external systems and services;
PL-08a.04[02]	a privacy architecture for the system describes any assumptions about and dependencies on external systems and services;
PL-08b.	changes in the enterprise architecture are reviewed and updated <PL-08_ODP frequency> to reflect changes in the enterprise architecture;
PL-08c.[01]	planned architecture changes are reflected in the security plan;
PL-08c.[02]	planned architecture changes are reflected in the privacy plan;
PL-08c.[03]	planned architecture changes are reflected in the Concept of Operations (CONOPS);
PL-08c.[04]	planned architecture changes are reflected in criticality analysis;
PL-08c.[05]	planned architecture changes are reflected in organizational procedures;
PL-08c.[06]	planned architecture changes are reflected in procurements and acquisitions.

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	x		x	x
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	x			
PL-10	Baseline Selection		x	x	x
PL-11	Baseline Tailoring		x	x	x

PL-08	SECURITY AND PRIVACY ARCHITECTURES
POTENTIAL ASSESSMENT METHODS AND OBJECTS:	
PL-08-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing information security and privacy architecture development; procedures addressing information security and privacy architecture reviews and updates; enterprise architecture documentation; information security and privacy architecture documentation; system security plan; privacy plan; security and privacy CONOPS for the system; records of information security and privacy architecture reviews and updates; other relevant documents or records].
PL-08-Interview	[SELECT FROM: Organizational personnel with security and privacy planning and plan implementation responsibilities; organizational personnel with information security and privacy architecture development responsibilities; organizational personnel with information security and privacy responsibilities].
PL-08-Test	[SELECT FROM: Organizational processes for developing, reviewing, and updating the information security and privacy architecture; mechanisms supporting and/or implementing the development, review, and update of the information security and privacy architecture].

PL-08(01) SECURITY AND PRIVACY ARCHITECTURES DEFENSE IN DEPTH	
ASSESSMENT OBJECTIVE: <i>Determine if:</i>	
PL-08(01)_ODP[01]	<i>controls to be allocated are defined;</i>
PL-08(01)_ODP[02]	<i>locations and architectural layers are defined;</i>
PL-08(01)(a)[01]	the security architecture for the system is designed using a defense-in-depth approach that allocates <PL-08(01)_ODP[01] controls> to <PL-08(01)_ODP[02] locations and architectural layers>;
PL-08(01)(a)[02]	the privacy architecture for the system is designed using a defense-in-depth approach that allocates <PL-08(01)_ODP[01] controls> to <PL-08(01)_ODP[02] locations and architectural layers>;
PL-08(01)(b)[01]	the security architecture for the system is designed using a defense-in-depth approach that ensures the allocated controls operate in a coordinated and mutually reinforcing manner;
PL-08(01)(b)[02]	the privacy architecture for the system is designed using a defense-in-depth approach that ensures the allocated controls operate in a coordinated and mutually reinforcing manner.
POTENTIAL ASSESSMENT METHODS AND OBJECTS:	
PL-08-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing information security and privacy architecture development; enterprise architecture documentation; information security and privacy architecture documentation; system security plan; privacy plan; security and privacy CONOPS for the system; other relevant documents or records].
PL-08-Interview	[SELECT FROM: Organizational personnel with security and privacy planning and plan implementation responsibilities; organizational personnel with information security and privacy architecture development responsibilities; organizational personnel with information security and privacy responsibilities].
PL-08-Test	[SELECT FROM: Organizational processes for designing the information security and privacy architecture; mechanisms supporting and/or implementing the design of the information security and privacy architecture].

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	x		x	x
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	x			
PL-10	Baseline Selection		x	x	x
PL-11	Baseline Tailoring		x	x	x

PL-10	BASELINE SELECTION
ASSESSMENT OBJECTIVE: <i>Determine if:</i>	
PL-10	a control baseline for the system is selected.
POTENTIAL ASSESSMENT METHODS AND OBJECTS:	
PL-10-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing system security and privacy plan development and implementation; procedures addressing system security and privacy plan reviews and updates; system design documentation; system architecture and configuration documentation; system categorization decision; information types stored, transmitted, and processed by the system; system element/component information; stakeholder needs analysis; list of security and privacy requirements allocated to the system, system elements, and environment of operation; list of contractual requirements allocated to external providers of the system or system element; business impact analysis or criticality analysis; risk assessments; risk management strategy; organizational security and privacy policy; federal or organization-approved or mandated baselines or overlays; system security plan; privacy plan; other relevant documents or records].
PL-10-Interview	[SELECT FROM: Organizational personnel with security and privacy planning and plan implementation responsibilities; organizational personnel with information security and privacy responsibilities; organizational personnel with responsibility for organizational risk management activities].

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	x		x	x
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	x			
PL-10	Baseline Selection		x	x	x
PL-11	Baseline Tailoring		x	x	x



Business Area	Information Type ID	Information Type	Confidentiality	Integrity	Availability	Information Type Categorization	Sub-System Categorization	System Categorization
Environmental Management	D.8.3	Pollution Prevention and Control	Low	Low	Low	Low	Low	Moderate
Public Goods Creation & Management	D.22.3	Public Resources, Facility and Infrastructure Management	Low	Low	Low	Low		
		Tenant Data	Low	Low	Low	Low		
Information & Technology Management	C.3.5.5	Information Security	Low	Moderate	Low	Moderate		
Information & Technology Management	C.3.5.6	Record Retention	Low	Low	Low	Low		
Information & Technology Management	C.3.5.7	Information Management	Low	Moderate	Low	Moderate		
Information & Technology Management	C.3.5.8	System and Network Monitoring	Moderate	Moderate	Low	Moderate		
		System Data	Moderate	Moderate	Low	Moderate		

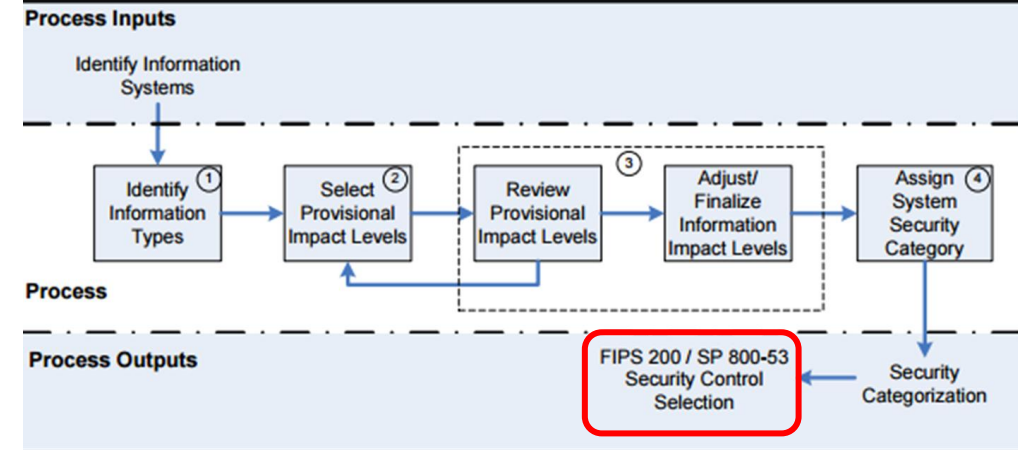


Figure 2: SP 800-60 Security Categorization Process Execution

PL-11		BASELINE TAILORING	
ASSESSMENT OBJECTIVE:			
<i>Determine if:</i>			
PL-11	the selected control baseline is tailored by applying specified tailoring actions.		
POTENTIAL ASSESSMENT METHODS AND OBJECTS:			
PL-11-Examine	[SELECT FROM: Security and privacy planning policy; procedures addressing system security and privacy plan development and implementation; system design documentation; system categorization decision; information types stored, transmitted, and processed by the system; system element/component information; stakeholder needs analysis; list of security and privacy requirements allocated to the system, system elements, and environment of operation; list of contractual requirements allocated to external providers of the system or system element; business impact analysis or criticality analysis; risk assessments; risk management strategy; organizational security and privacy policy; federal or organization-approved or mandated baselines or overlays; baseline tailoring rationale; system security plan; privacy plan; records of system security and privacy plan reviews and updates; other relevant documents or records].		
PL-11-Interview	[SELECT FROM: Organizational personnel with security and privacy planning and plan implementation responsibilities; organizational personnel with information security and privacy responsibilities].		

CONTROL NUMBER	CONTROL NAME CONTROL ENHANCEMENT NAME	PRIVACY CONTROL BASELINE	SECURITY CONTROL BASELINES		
			LOW	MOD	HIGH
PL-1	Policy and Procedures	x	x	x	x
PL-2	System Security and Privacy Plans	x	x	x	x
PL-2(1)	CONCEPT OF OPERATIONS	W: Incorporated into PL-7.			
PL-2(2)	FUNCTIONAL ARCHITECTURE	W: Incorporated into PL-8.			
PL-2(3)	PLAN AND COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES	W: Incorporated into PL-2.			
PL-3	System Security Plan Update	W: Incorporated into PL-2.			
PL-4	Rules of Behavior	x	x	x	x
PL-4(1)	SOCIAL MEDIA AND EXTERNAL SITE/APPLICATION USAGE RESTRICTIONS	x	x	x	x
PL-5	Privacy Impact Assessment	W: Incorporated into RA-8.			
PL-6	Security-Related Activity Planning	W: Incorporated into PL-2.			
PL-7	Concept of Operations				
PL-8	Security and Privacy Architectures	x		x	x
PL-8(1)	DEFENSE IN DEPTH				
PL-8(2)	SUPPLIER DIVERSITY				
PL-9	Central Management	x			
PL-10	Baseline Selection		x	x	x
PL-11	Baseline Tailoring		x	x	x

Agenda

- ✓ In the News
- ✓ Teams
- ✓ NIST Risk Management Framework and FIPS 199
- ✓ Use of NIST SP 800-60 Volume 1 and Volume 2
- ✓ *Exercise: How to assess and information security policy?*
- ✓ *Exercise – Determine Information and Information System Types and provisional security categorization*
- ✓ Security Control Baselines – review
 - ✓ FIPS 200 and NIST 800-53 Security Control Baselines
 - ✓ Security Control Families
- ✓ Planning Controls

Unit #3

MIS5214

Planning and Policy