



Cybersecurity Framework Security Policy Mapping Table

The following table illustrates how specific requirements of the US Cybersecurity Framework ^[1] are addressed by the ISO 27002 standard and covered by sample policy documents within Information Security Policies Made Easy (ISO 27002). In most cases, a single document covers more than a single subcategory requirement.

Function	Category	Subcategory	CPL Sample Policy
IDENTIFY (ID)	Asset Management (AM):	The personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to business objectives and the organization's risk strategy.	Asset Management Policy ISO 27002 - 8.1. Responsibility for assets
	AM	ID.AM-1: Physical devices and systems within the organization are inventoried	8.1.1 Inventory of assets
	AM	ID.AM-2: Software platforms and applications within the organization are inventoried	8.1.1 Inventory of assets
	AM	ID.AM-3: The organizational communication and data flow is mapped	
	AM	ID.AM-4: External information systems are mapped and catalogued	
	AM	ID.AM-5: Resources are prioritized based on the classification / criticality / business value of hardware, devices, data, and software	Information Classification Policy 8.2 Information classification
	AM	ID.AM-6: Workforce roles and responsibilities for business functions, including cybersecurity, are established	Information Security Organization Policy 6.1.1 Information security roles and

ID

Business Environment (BE): The organization's mission, objectives, stakeholders, and activities are understood and prioritized, and inform cybersecurity roles, responsibilities, and risk decisions.

BE **ID.BE-1:** The organization's role in the supply chain and is identified and communicated

BE **ID.BE-2:** The organization's place in critical infrastructure and their industry ecosystem is identified and communicated

BE **ID.BE-3:** Priorities for organizational mission, objectives, and activities are established

BE **ID.BE-4:** Dependencies and critical functions for delivery of critical services are established

BE **ID.BE-5:** Resilience requirements to support delivery of critical services are established

ID

Governance (GV): The policies, procedures, and processes to manage and monitor the organization's regulatory, legal, risk, environmental, and operational requirements are understood and inform the management of cybersecurity risk.

ID.GV-1: Organizational information security policy is established

ID.GV-2: Information security roles & responsibility are coordinated and aligned

ID.GV-3: Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed

ID.GV-4: Governance and risk management processes address cybersecurity risks

responsibilities

Information Security Planning Policy

ISO 27002 - 6.1 Internal organization

5.1 Management direction for information security

17.1.1 Planning information security continuity

17.2 Redundancies

Information Security Program Policy

ISO - 5.1. Management direction for information security

5.1.1 Policies for information security

Information Security Organization Policy

6.1.1 Information security roles and responsibilities

18.1 Compliance with legal and contractual requirements

IT Risk Management Policy

ID	Risk Assessment (RA): The organization understands the cybersecurity risk to organizational operations (including mission, functions, image, or reputation), organizational assets, and individuals.		4 Risk Assessment
	RA	ID.RA-1: Asset vulnerabilities are identified and documented	IT Risk Management Policy ISO 27002: 4.0 Risk Management
	RA	ID.RA-2: Threat and vulnerability information is received from information sharing forums and sources.	
	RA	ID.RA-3: Threats to organizational assets are identified and documented	
	RA	ID.RA-4: Potential impacts are analyzed	
	RA	ID.RA-5: Risk responses are identified.	
ID	Risk Management Strategy (RM): The organization's priorities, constraints, risk tolerances, and assumptions are established and used to support operational risk decisions.		
	RM	ID.RM-1: Risk management processes are managed and agreed to	
	RM	ID.RM-2: Organizational risk tolerance is determined and clearly expressed	
	RM	ID.RM-3: The organization's determination of risk tolerance is informed by their role in critical infrastructure and sector specific risk analysis	
PROTECT (PR)	Access Control (AC): Access to information resources and associated facilities are limited to authorized users, processes or devices (including other information systems), and to authorized activities and transactions.		Access Control Policy ISO 27002 - 9. Access control
	AC	PR.AC-1: Identities and credentials are managed for authorized devices and users	Account Management Policy 9.2 User access management
	AC	PR.AC-2: Physical access to resources is managed and secured	Physical Access Security Policy



AC **PR.AC-3:** Remote access is managed

AC **PR.AC-4:** Access permissions are managed

AC **PR.AC-5:** Network integrity is protected

Awareness and Training (AT): The organization's personnel and partners are adequately trained to perform their information security- related duties and responsibilities consistent with related policies, procedures, and agreements.

PR.AT-1: General users are informed and trained

PR.AT-2: Privileged users understand roles & responsibilities

PR.AT-3: Third-party stakeholders (suppliers, customers, partners) understand roles & responsibilities

PR.AT-4: Senior executives understand roles & responsibilities

PR.AT-5: Physical and information security personnel understand roles & responsibilities

Data Security (DS): Information and records (data) are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.

PR.DS-1: Data-at-rest is protected

PR.DS-2: Data-in-motion is secured

11.1.2 Physical entry controls

Remote Access Security Policy

9.1.2 Access to networks and network services

9.2.2 User access provisioning

Network Security Policy

9.1.2 Access to networks and network services

Security Awareness and Training Policy

ISO 27002: 7.2.2 - Information security awareness, education and training

Third Party Security Management

15.1.1 Information security policy for supplier relationships

Information Protection Policy

Information Protection Policy

8.2.3 Handling of assets

Information Exchange Policy

PR.DS-3: Assets are formally managed throughout removal, transfers, and disposition

PR.DS-4: Adequate capacity to ensure availability is maintained.

PR.DS-5: There is protection against data leaks

PR.DS-6: Intellectual property is protected

PR.DS-7: Unnecessary assets are eliminated

PR.DS-8: Separate testing environments are used in system development

PR.DS-9: Privacy of individuals and personally identifiable information (PII) is protected

Information Protection Processes and Procedures (IP): Security policy (that addresses purpose, scope, roles, responsibilities, management commitment, and coordination among organizational entities), processes, and procedures are maintained and used to manage protection of information systems and assets

PR.IP-1: A baseline configuration of information technology/operational technology systems is created

PR.IP-2: A System Development Life Cycle to manage systems is implemented

PR.IP-3: Configuration change control processes are in

8.3.3 Physical media transfer

Asset Management Policy

8.2.3 Handling of assets

Operational Security Policy

12.1.3 Capacity management

8.1.3 Acceptable use of assets

Acceptable Use of Assets

18.1.2 Intellectual property Rights

Application Development Security Policy

14.3.1 Protection of test data

Data Privacy Policy

18.1.4 Privacy and protection of personally identifiable information

Information Security Program Policy

ISO 27002 – 14. System acquisition, development and maintenance & ISO 27002: 12 Operations security

System Configuration Management Policy

14.2 Security in development and support processes

System Configuration Management Policy

14.2.1 Secure development policy

Change Control Policy

PR

place

PR.IP-4: Backups of information are managed

PR.IP-5: Policy and regulations regarding the physical operating environment for organizational assets are met.

PR.IP-6: Information is destroyed according to policy and requirements

PR.IP-7: Protection processes are continuously improved

PR.IP-8: Information sharing occurs with appropriate parties

PR.IP-9: Response plans (Business Continuity Plan(s), Disaster Recovery Plan(s), Incident Handling Plan(s)) are in place and managed

PR.IP-10: Response plans are exercised

PR.IP-11: Cybersecurity is included in human resources practices (de-provisioning, personnel screening, etc.)

Maintenance (MA): Maintenance and repairs of operational and information system components is performed consistent with policies and procedures.

PR.MA-1: Maintenance and repair of organizational assets is performed and logged in a timely manner, with approved and controlled tools

PR.MA-2: Remote maintenance of organizational assets is approved, logged, and performed in a manner that prevents unauthorized access and supports availability

12.1.2 Change management

Information Backup Policy

12.3.1 Information backup

Physical Security Policy

11.2.1 Equipment siting and protection

Information Disposal Policy

8.3.2 Disposal of media

18.2.3 Technical compliance review

Information Exchange Security Policy

13.2.2 Agreements on information transfer

IT Continuity Security Policy

17.1 Information security continuity

17.1.3 Verify, review and evaluate information security continuity

Personnel Security Management Policy

7.1.1 Screening

Physical Security Policy

ISO 27002 - 11.2.4 Equipment maintenance

11.2.5 Removal of assets

11.2.6 Security of equipment and assets off premises

PR

requirements for important operational and information systems.

Protective Technology (PT): Technical security solutions are managed to ensure the security and resilience of systems and assets, consistent with related policies, procedures, and agreements.

PR.PT-1: Audit and log records are stored in accordance with audit policy

PR.PT-2: Removable media are protected according to a specified policy

PR.PT-3: Access to systems and assets is appropriately controlled

PR.PT-4: Communications networks are secured

PR.PT-5: Specialized systems are protected according to the risk analysis (SCADA, ICS, DLS)

Log Management Security Policy

12.4 Logging and monitoring

Log Management Security Policy

12.4 Logging and monitoring

Removable Media Policy

8.3.1 Management of removable media

Access Control Policy

9.1.2 Access to networks and network services

Network Security Policy

13.1 Network security management

DETECT (DE)

Anomalies and Events (AE): Anomalous activity is detected in a timely manner and the potential impact of events is understood.

DE.AE-1: A baseline of normal operations and procedures is identified and managed

DE.AE-2: Detected events are analyzed to understand attack targets and methods

DE.AE-3: Cybersecurity data are correlated from diverse information sources

DE.AE-4: Impact of potential cybersecurity events is determined.

System Monitoring Security Policy

ISO 27002 - 12.4 Logging and monitoring

12.1.1 Documented operating procedures

16.1.2 Reporting information security events

16.1.2 Reporting information security events

16.1.4 Assessment of and decision on information security events

DE

DE.AE-05: Incident alert thresholds are created

16.1.2 Reporting information security events

Security Continuous Monitoring (CM): The information system and assets are monitored to identify cybersecurity events and verify the effectiveness of protective measures.

System Monitoring Security Policy
ISO 27002 - 12.4.1 Event logging

DE.CM-2: The physical environment is monitored to detect potential cybersecurity events

Physical Security Policy
11.1.1 Physical security perimeter

DE.CM-3: Personnel activity is monitored to detect potential cybersecurity events

System Monitoring Security Policy
11.1.3 Securing offices, rooms and facilities

DE.CM-4: Malicious code is detected

Malicious Software Management Policy
12.2.1 Controls against mal-Ware

DE.CM-5: Unauthorized mobile code is detected

Malicious Software Management Policy
12.2.1 Controls against mal-Ware

DE.CM-6: External service providers are monitored

Third Party Security Policy
15.2 Supplier service delivery management

DE.CM-7: Unauthorized resources are monitored

DE.CM-8: Vulnerability assessments are performed

System Monitoring Security Policy
18.2.3 Technical compliance review

DE

Detection Processes (DP): Detection processes and procedures are maintained and tested to ensure timely and adequate awareness of anomalous events.

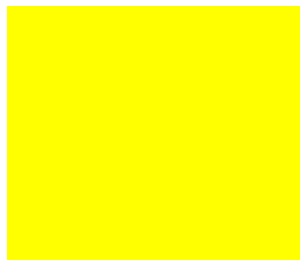
Incident Management Security Policy
ISO 27002: 16. Information security incident management

DE.DP-1: Roles and responsibilities for detection are well defined to ensure accountability

16.1.1 Responsibilities and Procedures

DE.DP-2: Detection activities comply with all applicable requirements, including those related to privacy and civil liberties

18.1.1 Identification of applicable legislation and contractual requirements



DE.DP-3: Detection processes are exercised to ensure readiness

16.1.5 Response to information security incidents

DE.DP-4: Event detection information is communicated to appropriate parties

6.1.3 Contact with authorities

DE.DP-5: Detection processes are continuously improved

16.1.6 Learning from information security incidents

RESPOND (RS)

Response Planning (RP): Response processes and procedures are maintained and tested to ensure timely response of detected cybersecurity events.

Security Incident Management Policy
ISO - 16. Information security incident management

RS.PL-1: Response plan is implemented during or after an event.

Communications (CO): Response activities are coordinated with internal and external stakeholders, as appropriate, to include external support from federal, state, and local law enforcement agencies.

Security Incident Management Policy
16.1.1 Responsibilities and Procedures

RS

ISO - 6.1.3 Contact with authorities

RS.CO-1: Personnel know their roles and order of operations when a response is needed

16.1.1 Responsibilities and Procedures

RS.CO-2: Events are reported consistent with established criteria

16.1.2 Reporting information security events

RS.CO-3: Detection/response information, such as breach reporting requirements, is shared consistent with response plans, including those related to privacy and civil liberties

16.1.5 Response to information security incidents

RS.CO-4: Coordination with stakeholders occurs consistent with response plans, including those related to privacy and civil liberties

6.1.4 Contact with special interest groups

RS.CO-5: Voluntary coordination occurs with external stakeholders (ex, business partners, information sharing and analysis centers, customers)

6.1.3 Contact with authorities

RS

Analysis (AN): Analysis is conducted to ensure adequate response and support recovery activities.

Security Incident Management Policy
ISO - 16.1.4 Assessment of and decision on



- RS.AN-1:** Notifications from the detection system are investigated
- RS.AN-2:** Understand the impact of the incident
- RS.AN-3:** Forensics are performed
- RS.AN-4:** Incidents are classified consistent with response plans

Mitigation (MI): Activities are performed to prevent expansion of an event, mitigate its effects, and eradicate the incident.

- MI **RS.MI-1:** Incidents are contained
- MI **RS.MI-2:** Incidents are eradicated

Improvements (IM): Organizational response activities are improved by incorporating lessons learned from current and previous detection/response activities.

- IM **RS.IM-1:** Response plans incorporate lessons learned
- IM **RS.IM-2:** Response strategies are updated

Recovery Planning (RP): Recovery processes and procedures are maintained and tested to ensure timely restoration of systems or assets affected by cybersecurity events.

- RP **RC.RP-1:** Recovery plan is executed

Improvements (IM): Recovery planning and processes are improved by incorporating lessons learned into future activities.

- IM **RC.IM-1:** Plans are updated with lessons learned

information security events.

Security Incident Management Policy

ISO - 16.1.5 Response to information security incidents

Security Incident Management Policy

ISO - 16.1.6 Learning from information security incidents

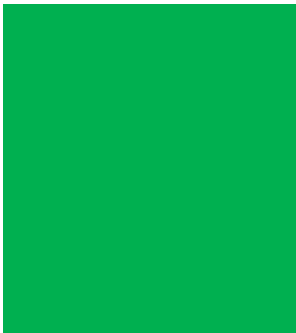
IT Continuity Security Policy

ISO 27002: 17.1 Information security continuity

17.1.2 Implementing information security continuity

IT Continuity Security Policy

ISO 17.1.3 Verify, review and evaluate information security continuity



IM

RC.IM-2: Recovery strategy is updated

Communications (CO): Restoration activities are coordinated with internal and external parties, such as coordinating centers, Internet Service Providers, owners of attacking systems, victims, other

IT Continuity Security Policy

ISO - 16.1.5 Response to information security incidents

ISO - 6.1.3 Contact with authorities

6.1.4 Contact with special interest groups

CO

RC.CO-1: Public Relations are managed

CO

RC.CO-2: Reputation after an event is repaired