## NIST IR 8477-Based Set Theory Relationship Mapping (STRM)

Focal Document: ISO 27002:2022

Reference Document :Secure Controls Framework (SCF) version 2025.1STRM Guidance:https://securecontrolsframework.com/set-theory-relationship-mapping-strm/

Focal Document URL: https://www.iso.org/standard/75652.html

Published STRM URL: https://securecontrolsframework.com/content/strm/scf-strm-general-iso-27002-2022.pdf

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SCF #	Secure Controls Framework (SCF)	Strength of Relationship	
1.0	Scope	Buy a copy of ISO 27002 for control content:	Rationale Functional	Relationship no relationship	N/A	N/A	Control Description N/A	(optional) N/A	No requirements to map to.
2.0	Normative references	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.0	Terms, definitions and abbreviated terms	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Standardized Terminology	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments.	5	
3.1	Terms and definitions	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Standardized	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments.	5	
3.2	Abbreviated terms	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Standardized Terminology	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments.	5	
4.0	Structure of this document	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.1	Clauses	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.2	Themes and attributes	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.3	Control layout	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.0	Organizational controls	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.1	Policies for information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
5.1	Policies for information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
5.1	Policies for information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.1	Policies for information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Data Privacy Program	PRI-01	Mechanisms exist to facilitate the implementation and operation of data protection controls throughout the data lifecycle to ensure all forms of Personal Data (PD) are processed lawfully, fairly and transparently.		
5.1	Policies for information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Dissemination of Data Privacy Program Information		Mechanisms exist to: (1) Ensure that the public has access to information about organizational data privacy activities and can communicate with its Chief Privacy Officer (CPO) or similar role; (2) Ensure that organizational data privacy practices are publicly available through organizational websites or document repositories; (3) Utilize publicly facing email addresses and/or phone lines to enable the public to provide feedback and/or direct questions to data privacy office(s) regarding data privacy practices; and (4) Inform data subjects when changes are made to the privacy notice and the pature of such changes	5	
5.2	Information security roles and responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Assigned Cybersecurity & Data Protection		Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an	5	
5.2	Information security roles and responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Responsibilities Defined Roles & Responsibilities	HRS-03	enterprise-wide cybersecurity & data protection program. Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
		Buy a copy of ISO 27002 for control content:	E contract		Roles With Special		Mechanisms exist to ensure that individuals accessing a system that stores,		
5.2	and responsibilities	https://www.iso.org/standard/75652.html	Functional	intersects with	Protection Measures Responsible,		transmits or processes information requiring special protection satisfy organization defined personnel screening criteria. Mechanisms exist to document and maintain a Responsible, Accountable,	5	
5.2	and responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	(RASCI) Matrix	TPM-05.4	Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs). Mechanisms exist to control personnel security requirements including security	5	
5.2	and responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Personnel Security	TPM-06	roles and responsibilities for third-party providers.	5	
5.3	Segregation of duties	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Separation of Duties (SoD)	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion. Mechanisms exist to avoid incompatible development-specific roles through	5	
5.3	Segregation of duties	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incompatible Roles	HRS-12	limiting and reviewing developer privileges to change hardware, software and firmware components within a production/operational environment.	5	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Formal Indoctrination	HRS-04.2	Mechanisms exist to verify that individuals accessing a system processing, storing, or transmitting sensitive information are formally indoctrinated for all the relevant	5	
5.4	Management	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Terms of Employment	HRS-05	types of information to which they have access on the system. Mechanisms exist to require all employees and contractors to apply cybersecurity	5	
5.4	responsibilities Management	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Rules of Behavior		& data privacy principles in their daily work. Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.	5	
5.4	responsibilities	https://www.iso.org/standard/75652.html	Functionat	Intersects with		HN3-03.1	Mechanisms exist to define rules of behavior that contain explicit restrictions on	5	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Social Media & Social Networking Restrictions	HRS-05.2	the use of social media and networking sites, posting information on commercial websites and sharing account information.	5	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to	5	
	Management	Buy a copy of ISO 27002 for control content:	E setterat		Cybersecurity & Data		systems, if used maliciously. Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-		
5.4	responsibilities	https://www.iso.org/standard/75652.html	Functional	subset of	Privacy Portfolio Management	PRM-01	related resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives.	10	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Resource Management	PRM-02	Mechanisms exist to address all capital planning and investment requests, including the resources needed to implement the cybersecurity & data privacy programs and document all exceptions to this requirement.	5	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and	5	
5.5	Contact with authorities	Buy a copy of ISO 27002 for control content:	Functional	equal	Contacts With	GOV-06	(3) Annually thereafter. Mechanisms exist to identify and document appropriate contacts with relevant law	10	
5.6	Contact with special interest groups	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Authorities Contacts With Groups & Associations		<ul> <li>enforcement and regulatory bodies.</li> <li>Mechanisms exist to establish contact with selected groups and associations within the cybersecurity &amp; data privacy communities to: <ul> <li>(1) Facilitate ongoing cybersecurity &amp; data privacy education and training for organizational personnel;</li> <li>(2) Maintain currency with recommended cybersecurity &amp; data privacy practices, techniques and technologies; and</li> <li>(3) Share current cybersecurity and/or data privacy-related information including threats vulnerabilities and incidents.</li> </ul> </li> </ul>	10	
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring For Information Disclosure	MON-11	Mechanisms exist to monitor for evidence of unauthorized exfiltration or disclosure of non-public information.	5	
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON- 11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC). Mechanisms exist to implement a threat intelligence program that includes a cross	5	
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Threat Intelligence Feeds Program	THR-01	organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	10	
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Threat Intelligence Feeds Feeds	THR-03	Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.		
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Threat Intelligence Feeds	THR-03.1	Mechanisms exist to utilize external threat intelligence feeds to generate and	5	
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Reporting Cybersecurity & Data Privacy Portfolio	PRM-01	disseminate organization-specific security alerts, advisories and/or directives. Mechanisms exist to facilitate the implementation of cybersecurity & data privacy- related resource planning controls that define a viable plan for achieving	10	
	Information security in	Buy a copy of ISO 27002 for control content:	Face at 1		Management Cybersecurity & Data		cybersecurity & data privacy objectives. Mechanisms exist to assess cybersecurity & data privacy controls in system project development to determine the extent to which the controls are	_	
5.8	project management	https://www.iso.org/standard/75652.html	Functional	intersects with	Privacy In Project Management	PRM-04	implemented correctly, operating as intended and producing the desired outcome with respect to meeting the requirements.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Requirements	PRM-05	Mechanisms exist to identify critical system components and functions by performing a criticality analysis for critical systems, system components or services at pre-defined decision points in the Secure Development Life Cycle	5	
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Definition Secure Development Life Cycle (SDLC)	1	(SDLC). Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
					Management		Mechanisms exist to identify: (1) Assumptions affecting risk assessments, risk response and risk monitoring;		
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Risk Framing	RSK-01.1	<ul> <li>(2) Constraints affecting risk assessments, risk response and risk monitoring;</li> <li>(3) The organizational risk tolerance; and</li> <li>(4) Priorities, benefits and trade-offs considered by the organization for managing risk.</li> </ul>	5	
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Risk Identification	RSK-03	Mechanisms exist to identify and document risks, both internal and external.	5	
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level. Mechanisms exist to respond to findings from cybersecurity & data privacy	5	
5.8	Information security in project management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Risk Response	RSK-06.1	assessments, incidents and audits to ensure proper remediation has been performed. Mechanisms exist to develop an enterprise architecture, aligned with industry-	5	
5.8	Information security in project management Inventory of information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
5.9	and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Asset-Service Dependencies	AST-01.1	Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function.	5	
5.9	Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	, 5	
5.9	Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Asset Inventories	AST-02	Mechanisms exist to perform inventories of technology assets that: (1) Accurately reflects the current systems, applications and services in use; (2) Identifies authorized software products, including business justification details (3) Is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational personnel.	; 5	
5.9	Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Action Mapping	AST-02.8	Mechanisms exist to create and maintain a map of technology assets where sensitive/regulated data is stored, transmitted or processed.	5	
5.9	Inventory of information and other associated	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Asset Ownership Assignment	AST-03	Mechanisms exist to ensure asset ownership responsibilities are assigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.	5	
5.9	assets Inventory of information and other associated	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Accountability Information	AST-03.1	Mechanisms exist to include capturing the name, position and/or role of individuals responsible/accountable for administering assets as part of the technology asset	s 5	
5.9	assets Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	inventory process. Mechanisms exist to maintain network architecture diagrams that: (1) Contain sufficient detail to assess the security of the network's architecture; (2) Reflect the current architecture of the network environment; and (3) Document all sensitive/regulated data flows.	5	
5.9	Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
5.9	Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	5	
5.9	Inventory of information and other associated	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Inventory of Personal Data (PD)	PRI-05.5	Mechanisms exist to establish and maintain a current inventory of all systems, applications and services that collect, receive, process, store, transmit, update	5	
5.9	assets Inventory of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Requirements Definition	PRM-05	and/or share Personal Data (PD). Mechanisms exist to identify critical system components and functions by performing a criticality analysis for critical systems, system components or services at pre-defined decision points in the Secure Development Life Cycle (SDLC).	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Media Marking	DCH-04	Mechanisms exist to mark media in accordance with data protection requirements so that personnel are alerted to distribution limitations, handling caveats and applicable security requirements.	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Custodians	DCH-07.1	Mechanisms exist to identify custodians throughout the transport of digital or non- digital media.	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Rules of Behavior	HRS-05.1	Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Social Media & Social Networking Restrictions	HRS-05.2	Mechanisms exist to define rules of behavior that contain explicit restrictions on the use of social media and networking sites, posting information on commercial websites and sharing account information.	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously.	5	
5.10	Acceptable use of information and other associated assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Access Agreements	HRS-06	Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access.	5	
5.11	Return of assets	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Return of Assets	AST-10	Mechanisms exist to ensure that employees and third-party users return all organizational assets in their possession upon termination of employment,	10	
5.12	Classification of information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Asset Scope Classification	AST-04.1	contract or agreement. Mechanisms exist to determine cybersecurity & data privacy control applicability by identifying, assigning and documenting the appropriate asset scope categorization for all systems, applications, services and personnel (internal and third-parties).	5	
5.12	Classification of information Classification of	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	subset of	Data Protection Data & Asset	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
5.12	information	https://www.iso.org/standard/75652.html	Functional	intersects with	Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements. Mechanisms exist to facilitate data governance to oversee the organization's	5	
5.12	Classification of information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Governance	GOV-10	policies, standards and procedures so that sensitive/regulated data is effectively managed and maintained in accordance with applicable statutory, regulatory and contractual obligations. Mechanisms exist to mark media in accordance with data protection requirements	5	
5.13	Labelling of information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Media Marking Transmission		so that personnel are alerted to distribution limitations, handling caveats and applicable security requirements.	10	
5.14	Information transfer	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with intersects with	Confidentiality Media Transportation	CRY-03 DCH-07	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted. Mechanisms exist to protect and control digital and non-digital media during	5	
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Custodians	DCH-07	transport outside of controlled areas using appropriate security measures. Mechanisms exist to identify custodians throughout the transport of digital or non- digital media.	5	
5.14	Information transfer	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Information Sharing	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing decisions to ensure data is appropriately protected.	5	
5.14	Information transfer	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Ad-Hoc Transfers	DCH-17	Mechanisms exist to secure ad-hoc exchanges of large digital files with internal or external parties. Mechanisms exist to require all employees and contractors to apply cybersecurity	5	
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Terms of Employment	HRS-05 1	& data privacy principles in their daily work. Mechanisms exist to define acceptable and unacceptable rules of behavior for the	5	
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Rules of Behavior		use of technologies, including consequences for unacceptable behavior. Mechanisms exist to require internal and third-party users to sign appropriate	5	
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Access Agreements Confidentiality	HRS-06 1	access agreements prior to being granted access. Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar	5	
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with	Agreements Network Security	NET-01	confidentiality agreements that reflect the needs to protect data and operational details, or both employees and third-parties. Mechanisms exist to develop, govern & update procedures to facilitate the	10	
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Controls (NSC) Data Flow Enforcement – Access Control Lists		implementation of Network Security Controls (NSC). Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal	5	
		https://www.iso.org/standard/75652.html			(ACLs)		systems.		

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5.14	Information transfer	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Deny Traffic by Default &	I N = 1 - 0/4 - 1	Mechanisms exist to configure firewall and router configurations to deny network traffic by default and allow network traffic by exception (e.g., deny all, permit by	5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Allow Traffic by Exception		exception). Mechanisms exist to protect the confidentiality, integrity and availability of		
5.14	Information transfer	https://www.iso.org/standard/75652.html	Functional	intersects with	Electronic Messaging	NET-13	electronic messaging communications. Mechanisms exist to force Internet-bound network traffic through a proxy device	5	
5.14	Information transfer	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	DNS & Content Filtering	NET-18	(e.g., Policy Enforcement Point (PEP)) for URL content filtering and DNS filtering to limit a user's ability to connect to dangerous or prohibited Internet sites.	5	
E 14		Buy a copy of ISO 27002 for control content:	Functional	intercetowith	Physical & Environmental		Mechanisms exist to facilitate the operation of physical and environmental		
5.14	Information transfer	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Protections Identity & Access		protection controls. Mechanisms exist to facilitate the implementation of identification and access	5	
5.15	Access control	https://www.iso.org/standard/75652.html	Functional	subset of	Management (IAM)	IAC-01	management controls. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and	10	
5.15	Access control	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Authentication for Organizational Users	IAC-02	Audit (AAA) organizational users and processes acting on behalf of organizational	5	
5.15	Access control	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Role-Based Access	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to-know and fine-grained access control fo	- 5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Control (RBAC)		sensitive/regulated data access. Mechanisms exist to proactively govern account management of individual, group,		
5.15	Access control	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Account Management Privileged Account	IAC-15	system, service, application, guest and temporary accounts. Mechanisms exist to restrict and control privileged access rights for users and	5	
5.15	Access control	https://www.iso.org/standard/75652.html	Functional	intersects with	Management (PAM)	IAC-16	services. Mechanisms exist to periodically-review the privileges assigned to individuals and	5	
5.15	Access control	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	5	
5.15	Access control	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Least Privilege	IAC-21	Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
5.15	Access control	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
5.15		Buy a copy of ISO 27002 for control content:	Functional	intercente with	Physical Access		Physical access control mechanisms exist to maintain a current list of personnel	F	
5.15	Access control	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Authorizations Role-Based Physical	PE3-02	with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).		
5.15	Access control	https://www.iso.org/standard/75652.html	Functional	intersects with	Access	PES-02.1	Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual. Physical access control mechanisms exist to enforce physical access	5	
5.15	Access control	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Access Control	PES-03	authorizations for all physical access points (including designated entry/exit	5	
							points) to facilities (excluding those areas within the facility officially designated as publicly accessible). Mechanisms exist to identify systems, equipment and respective operating		
5.15	Access control	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Security of Offices, Rooms & Eacilities	PES-04	environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.	5	
5.15	Access control	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Facilities Working in Secure Areas	PES-04 1	Physical security mechanisms exist to allow only authorized personnel access to	5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Identification &		secure areas. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and		
5.16	Identity management	https://www.iso.org/standard/75652.html	Functional	intersects with	Authentication for Non- Organizational Users	IAC-03	Audit (AAA) third-party users and processes that provide services to the organization.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Identification & Authentication for Devices	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.	5	
		Buy a copy of ISO 27002 for control content:			Identification &		Authentication that is cryptographically-based and replay resistant. Mechanisms exist to identify and authenticate third-party systems and services.	-	
5.16	Identity management	https://www.iso.org/standard/75652.html	Functional	intersects with	Authentication for Third Party Systems & Services	IAC-05		5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	User Provisioning & De- Provisioning	IAC-07	Mechanisms exist to utilize a formal user registration and de-registration process that governs the assignment of access rights.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Identifier Management (User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and systems.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	User Identity (ID) Management	IAC-09.1	Mechanisms exist to ensure proper user identification management for non- consumer users and administrators.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cross-Organization Management	IAC-09.4	Mechanisms exist to coordinate username identifiers with external organizations for cross-organization management of identifiers.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Disable Inactive Accounts	IAC-15.3	Automated mechanisms exist to disable inactive accounts after an organization- defined time period.	5	
5.16	Identity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Restrictions on Shared Groups / Accounts	IAC-15.5	Mechanisms exist to authorize the use of shared/group accounts only under certain organization-defined conditions.	5	
5.17	Authentication information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to securely manage authenticators for users and devices.	5	
5.17	Authentication information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	5	
5.17	Authentication information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Password Managers	IAC-10.11	Mechanisms exist to protect and store passwords via a password manager tool.	5	
5.17	Authentication information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Protection of Authenticators	IAC-10.5	Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits access.	5	
5.17	Authentication information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Default Authenticators	IAC-10.8	Mechanisms exist to ensure default authenticators are changed as part of account creation or system installation.	5	
5.17	Authentication	Buy a copy of ISO 27002 for control content:	Functional	intersects with	User Responsibilities for	IAC-18	Mechanisms exist to compel users to follow accepted practices in the use of authentication mechanisms (e.g., passwords, passphrases, physical or logical	5	
	information	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Account Management Separation of Duties		security tokens, smart cards, certificates, etc.). Mechanisms exist to implement and maintain Separation of Duties (SoD) to		
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	(SoD) Identity & Access	HRS-11	prevent potential inappropriate activity without collusion. Mechanisms exist to facilitate the implementation of identification and access	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	subset of	Management (IAM) User Provisioning & De-	IAC-01	management controls. Mechanisms exist to utilize a formal user registration and de-registration process	10	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Provisioning	IAC-07	that governs the assignment of access rights. Mechanisms exist to revoke user access rights following changes in personnel	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Change of Roles & Duties Termination of		roles and duties, if no longer necessary or permitted. Mechanisms exist to revoke user access rights in a timely manner, upon	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Employment Authenticator	IAC-07.2	termination of employment or contract. Mechanisms exist to securely manage authenticators for users and devices.	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Management	IAC-10	Mechanisms exist to protect and store passwords via a password manager tool.	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Password Managers Account Management	IAC-10.11 IAC-15	Mechanisms exist to proactively govern account management of individual, group,	D F	
	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Automated System		system, service, application, guest and temporary accounts. Automated mechanisms exist to support the management of system accounts	3	
5.18	Access rights	https://www.iso.org/standard/75652.html	Functional	intersects with	Account Management (Directory Services)	IAC-15.1	(e.g., directory services).	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Removal of Temporary / Emergency Accounts	IAC-15.2	Automated mechanisms exist to disable or remove temporary and emergency accounts after an organization-defined time period for each type of account.	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Privileged Account Management (PAM)	IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Privileged Account Inventories	IAC-16.1	Mechanisms exist to inventory all privileged accounts and validate that each person with elevated privileges is authorized by the appropriate level of organizational management.	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Credential Sharing	IAC-19	unnecessary privileges, as necessary. Mechanisms exist to prevent the sharing of generic IDs, passwords or other generic	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Access Enforcement	IAC-20	authentication methods. Mechanisms exist to enforce Logical Access Control (LAC) permissions that	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Access To Sensitive /	IAC-20.1	conform to the principle of "least privilege." Mechanisms exist to limit access to sensitive/regulated data to only those	5	
5.18	Access rights	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Regulated Data Database Access	IAC-20-2	individuals whose job requires such access. Mechanisms exist to restrict access to databases containing sensitive/regulated data to only necessary services or those individuals whose job requires such	5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Use of Privileged Utility		data to only necessary services or those individuals whose job requires such access. Mechanisms exist to restrict and tightly control utility programs that are capable of		
5.18	Access rights	https://www.iso.org/standard/75652.html	Functional	intersects with	Programs	IAC-20.3	overriding system and application controls. Mechanisms exist to utilize the concept of least privilege, allowing only authorized	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Least Privilege	IAC-21	access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Privileged Accounts	IAC-21.3	defined personnel or roles without management approval.	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
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FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Access Authorizations	PES-02	Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Role-Based Physical Access	PES-02.1	facility officially designated as publicly accessible). Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.	5	
5.18	Access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Access Control	PES-03	Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Third-Party Management	TPM-01	publicly accessible). Mechanisms exist to facilitate the implementation of third-party management controls.	10	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications,	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	services and data. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
5.19	Information security in supplier relationships Information security in	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Supply Chain Protection Limit Potential Harm	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain. Mechanisms exist to utilize security safeguards to limit harm from potential	5	
5.19	supplier relationships Information security in	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with	Processes To Address Weaknesses or		adversaries who identify and target the organization's supply chain. Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
5.19	supplier relationships Information security in	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Deficiencies Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the	5	
5.19	supplier relationships Information security in supplier relationships	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Risk Assessments & Approvals		organization's systems and data. Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Conflict of Interests	TPM-04.3	Mechanisms exist to ensure that the interests of external service providers are consistent with and reflect organizational interests.	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Personnel Security	TPM-06	Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
5.19	Information security in supplier relationships	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Incident Response & Recovery	TPM-11	Mechanisms exist to ensure response/recovery planning and testing are conducted with critical suppliers/providers.	5	
5.20	Addressing information security within supplier	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Capabilities Supply Chain Coordination	IRO-10.4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply	5	
5.20	agreements Addressing information security within supplier	Buy a copy of ISO 27002 for control content:	Functional	subset of	Third-Party Management	TPM-01	chain for systems or system components related to the incident. Mechanisms exist to facilitate the implementation of third-party management controls.	10	
	agreements Addressing information	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:					Mechanisms exist to utilize security safeguards to limit harm from potential		
5.20	security within supplier agreements Addressing information	https://www.iso.org/standard/75652.html	Functional	intersects with	Limit Potential Harm	TPM-03.2	adversaries who identify and target the organization's supply chain. Mechanisms exist to require contractual requirements for cybersecurity & data	5	
5.20	security within supplier agreements Addressing information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Contract Requirements	TPM-05	privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data. Mechanisms exist to monitor, regularly review and assess External Service	5	
5.20	security within supplier agreements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Review of Third-Party Services	TPM-08	Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
5.20	Addressing information security within supplier agreements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Managing Changes To Third-Party Services	TPM-10	Mechanisms exist to control changes to services by suppliers, taking into account the criticality of business information, systems and processes that are in scope by the third-party.	5	
5.21	Managing information security in the ICT supply chain	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Provenance	AST-03.2	Mechanisms exist to track the origin, development, ownership, location and changes to systems, system components and associated data.	5	
5.21	Managing information security in the ICT supply chain	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Information Assurance (IA) Operations	IAO-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy assessment and authorization controls.	10	
5.21	Managing information security in the ICT supply chain	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting	5	
5.21	Managing information security in the ICT supply chain	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Specialized Assessments	IAO-02.2	expected requirements. Mechanisms exist to conduct specialized assessments for: (1) Statutory, regulatory and contractual compliance obligations; (2) Monitoring capabilities; (3) Mobile devices; (4) Databases; (5) Application security; (6) Embedded technologies (e.g., IoT, OT, etc.); (7) Vulnerability management; (8) Malicious code; (9) Insider threats; (10) Performance/load testing; and/or	5	
5.21	security in the ICT supply	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Supply Chain Risk Management (SCRM)	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected	5	
	chain Managing information	Buy a copy of ISO 27002 for control content:	_		Plan		mitigating actions and monitoring performance against those plans. Mechanisms exist to evaluate security risks associated with the services and		
5.21	security in the ICT supply chain Managing information	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Supply Chain Protection Acquisition Strategies,		product supply chain. Mechanisms exist to utilize tailored acquisition strategies, contract tools and	5	
5.21	security in the ICT supply chain Managing information	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Tools & Methods Third-Party Processing,		procurement methods for the purchase of unique systems, system components or <u>services</u> . Mechanisms exist to restrict the location of information processing/storage based	5	
5.21	security in the ICT supply chain Managing information	https://www.iso.org/standard/75652.html	Functional	intersects with	Storage and Service Locations		on business requirements. Mechanisms exist to require contractual requirements for cybersecurity & data	5	
5.21	security in the ICT supply chain Managing information	https://www.iso.org/standard//5652.html	Functional	intersects with	Third-Party Contract Requirements	TPM-05	privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data. Mechanisms exist to compel External Service Providers (ESPs) to provide	5	
5.21	security in the ICT supply chain Monitoring, review and	https://www.iso.org/standard//5652.html	Functional	intersects with	Security Compromise Notification Agreements	TPM-05.1	notification of actual or potential compromises in the supply chain that can potentially affect or have adversely affected systems, applications and/or services that the organization utilizes. Mechanisms exist to evaluate security risks associated with the services and	5	
5.22	change management of supplier services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Supply Chain Protection		product supply chain.	5	
5.22	Monitoring, review and change management of supplier services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Acquisition Strategies, Tools & Methods		Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	5	
5.22	Monitoring, review and change management of supplier services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Processes To Address Weaknesses or Deficiencies		Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
5.22	Monitoring, review and change management of supplier services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Review of Third-Party Services		Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
5.22	Monitoring, review and change management of supplier services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Managing Changes To Third-Party Services		Mechanisms exist to control changes to services by suppliers, taking into account the criticality of business information, systems and processes that are in scope by the third-party.	5	
5.23	Information security for use of cloud services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Cloud Services	CLD-01	Mechanisms exist to facilitate the implementation of cloud management controls to ensure cloud instances are secure and in-line with industry practices.	10	
5.23	Information security for use of cloud services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cloud Security Architecture	CLD-02	Mechanisms exist to ensure the cloud security architecture supports the organization's technology strategy to securely design, configure and maintain cloud employments.	5	
5.23	Information security for use of cloud services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Application & Program Interface (API) Security	CLD-04	Mechanisms exist to ensure support for secure interoperability between components with Application & Program Interfaces (APIs). Mechanisms exist to ensure multi-tenant owned or managed assets (physical and	5	
5.23	Information security for use of cloud services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Multi-Tenant Environments		Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
	Information security for	Buy a copy of ISO 27002 for control content:			Customer Responsibility		Mechanisms exist to formally document a Customer Responsibility Matrix (CRM),	(optional)	
5.23	use of cloud services	https://www.iso.org/standard/75652.html	Functional	intersects with	Matrix (CRM) Geolocation	CLD-06.1	delineating assigned responsibilities for controls between the Cloud Service Provider (CSP) and its customers. Mechanisms exist to control the location of cloud processing/storage based on	5	
5.23	Information security for use of cloud services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Requirements for Processing, Storage and Service Locations	CLD-09	business requirements that includes statutory, regulatory and contractual obligations.	5	
	Information	Run a comula f ISO 27002 for earth lands					Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP)		
5.23	Information security for use of cloud services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Assessments	IAO-02	activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting	5	
							expected requirements. Mechanisms exist to conduct specialized assessments for: (1) Statutory, regulatory and contractual compliance obligations;		
							<ul><li>(1) Statutory, regulatory and contractual compliance obligations;</li><li>(2) Monitoring capabilities;</li><li>(3) Mobile devices;</li></ul>		
5.23	Information security for	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Specialized Assessments	IAO-02.2	<ul><li>(4) Databases;</li><li>(5) Application security;</li></ul>	5	
	use of cloud services	https://www.iso.org/standard/75652.html					<ul><li>(6) Embedded technologies (e.g., IoT, OT, etc.);</li><li>(7) Vulnerability management;</li><li>(8) Malicious code:</li></ul>		
							<ul><li>(8) Malicious code;</li><li>(9) Insider threats;</li><li>(10) Performance/load testing; and/or</li></ul>		
	Information security for	Buy a copy of ISO 27002 for control content:			Responsible,		(11) Artificial Intelligence and Automonous Technologies (AAT) Mechanisms exist to document and maintain a Responsible. Accountable.		
5.23	use of cloud services	https://www.iso.org/standard/75652.html	Functional	intersects with	Accountable, Supportive, Consulted & Informed (RASCI) Matrix		delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
5.24	Information security incident management	Buy a copy of ISO 27002 for control content:	Functional	subset of	Incident Response	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-	10	
	planning and preparation	https://www.iso.org/standard/75652.html			Operations		related incidents. Mechanisms exist to cover:		
	Information security	Buy a copy of ISO 27002 for control content:	For the state		la statute de la ma		<ul><li>(1) Preparation;</li><li>(2) Automated event detection or manual incident report intake;</li></ul>	_	
5.24	incident management planning and preparation	https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Handling	IRO-02	<ul><li>(3) Analysis;</li><li>(4) Containment;</li><li>(5) Eradication; and</li></ul>	5	
	Information security						(6) Recovery Mechanisms exist to maintain and make available a current and viable Incident		
5.24	incident management planning and preparation	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Response Plan (IRP) to all stakeholders.	5	
5.24	Information security	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Root Cause Analysis		Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future	5	
0.24	incident management planning and preparation	https://www.iso.org/standard/75652.html	Functional	intersects with	(RCA) & Lessons Learned		incidents. Mechanisms exist to cover:	5	
	Assessment and decision	Buy a copy of ISO 27002 for control content:					<ul> <li>Mechanisms exist to cover:</li> <li>(1) Preparation;</li> <li>(2) Automated event detection or manual incident report intake;</li> </ul>		
5.25	on information security events	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Handling	IRO-02	<ul><li>(3) Analysis;</li><li>(4) Containment;</li></ul>	5	
	Assessment and decision						(5) Eradication; and (6) Recovery Mechanisms exist to address data breaches, or other incidents involving the		
5.25	on information security events	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Breach	IRO-04.1	unauthorized disclosure of sensitive or regulated data, according to applicable laws, regulations and contractual obligations.	5	
5.25	Assessment and decision on information security events	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)		Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
5.25	Assessment and decision on information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of	5	
	events						the incident. Mechanisms exist to cover: (1) Preparation;		
5.26	Response to information security incidents	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Handling	IRO-02	<ul><li>(1) Preparation;</li><li>(2) Automated event detection or manual incident report intake;</li><li>(3) Analysis;</li></ul>	5	
		יייייייייייייייט.ופט.טופיסנמוועמוע/ איזססט.וונואו					<ul><li>(4) Containment;</li><li>(5) Eradication; and</li></ul>		
5.26	Response to information security incidents	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Response Plan (IRP)		(6) Recovery Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
5.26		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	interporte unit	(IRP) Integrated Security Incident Response Team		Mechanisms exist to establish an integrated team of cybersecurity, IT and business	E	
	security incidents	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	(ISIRT) Chain of Custody &		function representatives that are capable of addressing cybersecurity & data privacy incident response operations. Mechanisms exist to perform digital forensics and maintain the integrity of the		
5.26	Response to information security incidents Learning from	https://www.iso.org/standard/75652.html	Functional	intersects with	Forensics		chain of custody, in accordance with applicable laws, regulations and industry- recognized secure practices.	5	
5.27	Learning from information security incidents	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Root Cause Analysis (RCA) & Lessons Learned		Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	10	
5.28	Collection of evidence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Chain of Custody & Forensics		Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-	10	
	Information security	Buy a copy of ISO 27002 for control content:	<b></b>		Business Continuity		recognized secure practices. Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations		
5.29	during disruption	https://www.iso.org/standard/75652.html	Functional	subset of	Management System (BCMS)	BCD-01	Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
5.29	Information security during disruption	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Coordinate with Related Plans	BCD-01.1	Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans. Mechanisms exist to coordinate internal contingency plans with the contingency	5	
5.29	Information security during disruption	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Coordinate With External Service Providers	BCD-01.2	plans of external service providers to ensure that contingency requirements can be satisfied.	5	
5.29	Information security during disruption	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Contingency Plan Testing & Exercises		Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.	5	
5.29	Information security during disruption	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Response Training	IRO-05	Mechanisms exist to train personnel in their incident response roles and responsibilities.	5	
5.29	Information security during disruption Information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Coordination with Related Plans Coordination With	IRO-06.1	Mechanisms exist to coordinate incident response testing with organizational elements responsible for related plans. Mechanisms exist to establish a direct, cooperative relationship between the	5	
5.29	during disruption	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with intersects with	External Providers Asset Governance	IRO-11.2	Mechanisms exist to establish a direct, cooperative relationship between the organization's incident response capability and external service providers. Mechanisms exist to facilitate an IT Asset Management (ITAM) program to	5	
5.30	business continuity ICT readiness for	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with intersects with	Asset-Service	AS1-01	implement and manage asset management controls. Mechanisms exist to identify and assess the security of technology assets that	5	
	business continuity ICT readiness for	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Dependencies Business Continuity		support more than one critical business function. Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations	40	
5.30	business continuity	https://www.iso.org/standard/75652.html	Functional	subset of	Management System (BCMS)	BCD-01	Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
5.30	ICT readiness for business continuity	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Coordinate with Related Plans	BCD-01.1	Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans. Mechanisms exist to coordinate internal contingency plans with the contingency	5	
5.30	ICT readiness for business continuity	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Coordinate With External Service Providers	BCD-01.2	plans of external service providers to ensure that contingency requirements can be satisfied.	5	
5.30	ICT readiness for business continuity	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Contingency Plan Testing & Exercises		Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's effectiveness and the organization's readiness to execute the plan.	5	
5.30	ICT readiness for business continuity	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Response Testing		Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.	5	
5.30	ICT readiness for business continuity	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Business Impact Analysis (BIA)	RSK-08	Mechanisms exist to conduct a Business Impact Analysis (BIA) to identify and assess cybersecurity and data protection risks.	5	
5.31	Legal, statutory,	Buy a copy of ISO 27002 for control content:	Functional	intersects with	(BIA) Asset Governance	AST-01	Assess cybersecurity and data protection risks. Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	5	
5.31	regulatory and contractual requirements	https://www.iso.org/standard/75652.html	เ−นาเรเเอกิลโ	milersects with	Asset Governance			5	
5.31	Legal, statutory, regulatory and	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Statutory, Regulatory & Contractual Compliance		Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
	contractual requirements								

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
5.31	Legal, statutory, regulatory and contractual requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Protection Controls Oversight	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
5.31	Legal, statutory, regulatory and contractual requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Export-Controlled Cryptography	CRY-01.2	Mechanisms exist to address the exporting of cryptographic technologies in compliance with relevant statutory and regulatory requirements.	5	
5.31	Legal, statutory, regulatory and contractual requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
5.31	Legal, statutory, regulatory and contractual requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
5.32	Intellectual property rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Software Licensing Restrictions		Mechanisms exist to protect Intellectual Property (IP) rights with software licensing restrictions.	10	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Choice & Consent	PRI-03	Mechanisms exist to enable data subjects to authorize the collection, processing, storage, sharing, updating and disposal of their Personal Data (PD), where prior to collection the data subject is provided with: (1) Plain language to illustrate the potential data privacy risks of the authorization; (2) A means for users to decline the authorization; and (3) All necessary choice and consent-related criteria required by applicable statutory, regulatory and contractual obligations.	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Restrict Collection To Identified Purpose	PRI-04	Mechanisms exist to minimize the collection of Personal Data (PD) to only what is adequate, relevant and limited to the purposes identified in the data privacy notice, including protections against collecting PD from minors without appropriate parental or legal guardian consent. Mechanisms exist to:	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Personal Data (PD) Retention & Disposal	PRI-05	<ul> <li>(1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law;</li> <li>(2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and</li> <li>(3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).</li> </ul>	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Internal Use of Personal Data (PD) For Testing, Training and Research	PRI-05.1	Mechanisms exist to address the use of Personal Data (PD) for internal testing, training and research that: (1) Takes measures to limit or minimize the amount of PD used for internal testing, training and research purposes; and (2) Authorizes the use of PD when such information is required for internal testing, training and research.	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Usage Restrictions of Personal Data (PD)	PRI-05.4	Mechanisms exist to restrict collecting, receiving, processing, storing, transmitting, updating and/or sharing Personal Data (PD) to: (1) The purpose(s) originally collected, consistent with the data privacy notice(s); (2) What is authorized by the data subject, or authorized agent; and (3) What is consistent with applicable laws, regulations and contractual obligations.	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data subject.	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Protection Impact Assessment (DPIA)	RSK-10	Mechanisms exist to conduct a Data Protection Impact Assessment (DPIA) on systems, applications and services that store, process and/or transmit Personal Data (PD) to identify and remediate reasonably-expected risks.	5	
5.34	Privacy and protection of PII	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Data Privacy Program	PRI-01	Mechanisms exist to facilitate the implementation and operation of data protection controls throughout the data lifecycle to ensure all forms of Personal Data (PD) are processed lawfully, fairly and transparently.	10	
5.34	Privacy and protection of PII	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Security of Personal Data (PD)	PRI-01.6	Mechanisms exist to ensure Personal Data (PD) is protected by logical and physica security safeguards that are sufficient and appropriately scoped to protect the confidentiality and integrity of the PD.	5	
5.34	Privacy and protection of PII	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Privacy Notice	PRI-02	<ul> <li>Mechanisms exist to:</li> <li>(1) Make data privacy notice(s) available to individuals upon first interacting with an organization and subsequently as necessary;</li> <li>(2) Ensure that data privacy notices are clear and easy-to-understand, expressing relevant information about how Personal Data (PD) is collected, received, processed, stored, transmitted, shared, updated and disposed;</li> <li>(3) Contain all necessary notice-related criteria required by applicable statutory, regulatory and contractual obligations.</li> <li>(4) Define the scope of PD processing activities, including the geographic locations and third-party recipients that process the PD within the scope of the data privacy notice;</li> <li>(5) Periodically, review and update the content of the privacy notice, as necessary; and</li> <li>(6) Retain prior versions of the privacy notice, in accordance with data retention requirements.</li> </ul>		
5.34	Privacy and protection of PII	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Purpose Specification		Mechanisms exist to ensure the data privacy notice identifies the purpose(s) for which Personal Data (PD) is collected, received, processed, stored, transmitted,	5	
5.35	Independent review of information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Internal Audit Function	CPL-02.1	shared. Mechanisms exist to implement an internal audit function that is capable of providing senior organization management with insights into the appropriateness of the organization's technology and information governance processes.	5	
5.35	Independent review of information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	Mechanisms exist to ensure managers regularly review the processes and documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5	
5.35	Independent review of information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Independent Assessors		Mechanisms exist to utilize independent assessors to evaluate cybersecurity & data protection controls at planned intervals or when the system, service or project undergoes significant changes.	5	
5.35	Independent review of information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Functional Review Of Cybersecurity & Data Protection Controls	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
5.35	Independent review of information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Audit Activities	CPL-04	Mechanisms exist to thoughtfully plan audits by including input from operational risk and compliance partners to minimize the impact of audit-related activities on business operations.	5	
5.36	security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Protection Controls Oversight	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
5.36	Compliance with policies, rules and standards for informatior security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	Mechanisms exist to ensure managers regularly review the processes and documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5	
5.36	security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Functional Review Of Cybersecurity & Data Protection Controls	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
5.36	Compliance with policies, rules and	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Testing, Training & Monitoring	PRI-08	Mechanisms exist to conduct cybersecurity & data privacy testing, training and monitoring activities	5	
5.37	Documented operating procedures	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
5.37	Documented operating procedures	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength o Relationshi (optional)	
5.37	Documented operating procedures	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
5.37	Documented operating	Buy a copy of ISO 27002 for control content:	Functional	subset of	Protection Program Operations Security	OPS-01	Mechanisms exist to facilitate the implementation of operational security controls.	10	
	procedures Documented operating	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Standardized Operating		Mechanisms exist to identify and document Standardized Operating Procedures		
5.37	procedures	https://www.iso.org/standard/75652.html	Functional	equal	Procedures (SOP)	OPS-01.1	(SOP), or similar documentation, to enable the proper execution of day-to-day / assigned tasks. Mechanisms exist to define supporting business processes and implement	10	
5.37	Documented operating	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Service Delivery (Business Process	OPS-03	appropriate governance and service management to ensure appropriate planning, delivery and support of the organization's technology capabilities supporting	5	
0.07	procedures	https://www.iso.org/standard/75652.html	- unotionat		Support)		business functions, workforce, and/or customers based on industry-recognized standards to achieve the specific goals of the process area.		
6.0	People controls	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
6.1	Screening	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Personnel Screening	HRS-04	Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.	5	
6.1	Screening	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Roles With Special Protection Measures	HRS-04.1	Mechanisms exist to ensure that individuals accessing a system that stores, transmits or processes information requiring special protection satisfy organization	. 5	
6.2	Terms and conditions of	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Terms of Employment	HRS-05	defined personnel screening criteria. Mechanisms exist to require all employees and contractors to apply cybersecurity	5	
6.2	employment Terms and conditions of	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Rules of Behavior		& data privacy principles in their daily work. Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.	5	
0.2	employment	https://www.iso.org/standard/75652.html					Mechanisms exist to define rules of behavior that contain explicit restrictions on	5	
6.2	Terms and conditions of employment	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Social Media & Social Networking Restrictions		the use of social media and networking sites, posting information on commercial websites and sharing account information.	5	
6.2	Terms and conditions of employment	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to	5	
6.2	Terms and conditions of	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Use of Mobile Devices	HRS-05.5	systems, if used maliciously. Mechanisms exist to manage business risks associated with permitting mobile	5	
	employment Information security	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Cybersecurity & Data		device access to organizational resources. Mechanisms exist to facilitate the implementation of security workforce	10	
6.3	awareness, education and training Information security	https://www.iso.org/standard/75652.html	Functional	subset of	Privacy-Minded Workforce	SAT-01	development and awareness controls.	10	
6.3	awareness, education and training	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Awareness Training	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	5	
	Information security	Run o comunitação o 7000 for a contra la contra d			Role-Based		Mechanisms exist to provide role-based cybersecurity & data privacy-related training:		
6.3	awareness, education and training	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Training	SAT-03	<ul><li>(1) Before authorizing access to the system or performing assigned duties;</li><li>(2) When required by system changes; and</li></ul>	5	
6.4	Disciplinary process	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Personnel Sanctions	HRS-07	(3) Annually thereafter. Mechanisms exist to sanction personnel failing to comply with established security	5	
6.4	Disciplinary process	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Workplace Investigations		policies, standards and procedures. Mechanisms exist to conduct employee misconduct investigations when there is	5	
6.5	Responsibilities after termination or change of	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Personnel Transfer		reasonable assurance that a policy has been violated. Mechanisms exist to adjust logical and physical access authorizations to systems	-	
6.5	employment Responsibilities after	https://www.iso.org/standard/75652.html	Functional	intersects with	Personnet Transfer	HKS-08	and facilities upon personnel reassignment or transfer, in a timely manner. Mechanisms exist to govern the termination of individual employment.	5	
6.5	termination or change of employment	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Personnel Termination	HRS-09		5	
6.5	Responsibilities after termination or change of	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Post-Employment	HRS-09.3	Mechanisms exist to govern former employee behavior by notifying terminated individuals of applicable, legally binding post-employment requirements for the	5	
	employment Confidentiality or non-	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Requirements Confidentiality		protection of organizational information. Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar		
6.6	disclosure agreements	https://www.iso.org/standard/75652.html	Functional	intersects with	Agreements	HRS-06.1	confidentiality agreements that reflect the needs to protect data and operational details, or both employees and third-parties.	5	
6.6	Confidentiality or non- disclosure agreements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to	5	
6.7	Remote working	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Remote Access	NET-14	protect its systems, processes and data. Mechanisms exist to define, control and review organization-approved, secure remote access methods.	5	
6.7	Remote working	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Work From Anywhere (WFA) - Telecommuting	NET-14.5	Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.	5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Security Cybersecurity & Data		Mechanisms exist to provide a cybersecurity & data protection controls oversight		
6.8	Information security event reporting	https://www.iso.org/standard/75652.html	Functional	intersects with	Protection Controls Oversight	CPL-02	function that reports to the organization's executive leadership.	5	
							Mechanisms exist to cover: (1) Preparation;		
6.8	Information security event reporting	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Handling	IRO-02	<ul><li>(2) Automated event detection or manual incident report intake;</li><li>(3) Analysis;</li></ul>	5	
							<ul><li>(4) Containment;</li><li>(5) Eradication; and</li><li>(6) Becovery</li></ul>		
	Information security	Buy a copy of ISO 27002 for control content:	E suite st		Incident Stakeholder	100.40	Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders;		
6.8	event reporting	https://www.iso.org/standard/75652.html	Functional	intersects with	Reporting	IRO-10	(2) Affected clients & third-parties; and (3) Regulatory authorities.	5	
6.8	Information security event reporting	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Central Review & Analysis	MON- 02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	5	
6.8	Information security event reporting	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring Reporting	MON-06	Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous activities.	5	
7.0	Physical controls	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to facilitate the operation of physical and environmental	N/A	No requirements to map to.
7.1	Physical security perimeters	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Physical & Environmental Protections	PES-01	protection controls.	10	
7.1	Physical security	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Physical Access	PES-02	Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the	5	
	perimeters	https://www.iso.org/standard/75652.html			Authorizations		facility officially designated as publicly accessible). Physical access control mechanisms exist to enforce physical access		
7.1	Physical security perimeters	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Access Control	PES-03	authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as	5	
7.1	Physical security	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Controlled Ingress &	PES-03.1	publicly accessible). Physical access control mechanisms exist to limit and monitor physical access	5	
	perimeters Physical security	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Egress Points Physical Security of		through controlled ingress and egress points. Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical		
7.1	perimeters	https://www.iso.org/standard/75652.html	Functional	intersects with	Offices, Rooms & Facilities	PES-04	access controls are designed and implemented for offices, rooms and facilities.	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Removal of Assets	AST-11	Mechanisms exist to authorize, control and track technology assets entering and exiting organizational facilities.	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Personal Devices	AST-12	Mechanisms exist to restrict the possession and usage of personally-owned technology devices within organization-controlled facilities.	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals. Mechanisms exist to:	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Media Storage	DCH-06	<ul> <li>(1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and</li> </ul>	5	
		https://www.iso.org/standard/75652.html					<ul> <li>(2) Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures.</li> </ul>		
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Media Transportation	DCH-07	Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security measures.	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Encrypting Data In Storage Media	DCH-07.2	Cryptographic mechanisms exist to protect the confidentiality and integrity of information stored on digital media during transport outside of controlled areas.	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Physical Media Disposal	DCH-08	Mechanisms exist to securely dispose of media when it is no longer required, using	5	
7.10	Storage media	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Media Use	DCH-10	formal procedures. Mechanisms exist to restrict the use of types of digital media on systems or system	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Limitations on Use	DCH-10.1	components. Mechanisms exist to restrict the use and distribution of sensitive / regulated data.	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Removable Media Security	DCH-12	Mechanisms exist to restrict removable media in accordance with data handling and acceptable usage parameters.	5	
7.11	Supporting utilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Supporting Utilities	PES-07	Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.	5	
		Buy a copy of ISO 27002 for control content:			Automatic Voltage		Facility security mechanisms exist to utilize automatic voltage controls for critical		

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
							Facility security mechanisms exist to shut off power in emergency situations by:	(optional)	
7.11	Supporting utilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Emergency Shutoff	PES-07.2	<ul> <li>(1) Placing emergency shutoff switches or devices in close proximity to systems or system components to facilitate safe and easy access for personnel; and</li> <li>(2) Protecting emergency power shutoff capability from unauthorized activation.</li> </ul>	5	
7.11	Supporting utilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Emergency Power	PES-07.3	Facility security mechanisms exist to supply alternate power, capable of maintaining minimally-required operational capability, in the event of an extended loss of the primary power source.	5	
7.11	Supporting utilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Emergency Lighting	PES-07.4	Facility security mechanisms exist to utilize and maintain automatic emergency lighting that activates in the event of a power outage or disruption and that covers emergency exits and evacuation routes within the facility.	5	
7.12	Cabling security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Supporting Utilities Equipment Siting &	PES-07	Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction. Physical security mechanisms exist to locate system components within the	5	
7.12	Cabling security	https://www.iso.org/standard/75652.html	Functional	intersects with	Protection	PES-12	facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access. Physical security mechanisms exist to protect power and telecommunications	5	
7.12	Cabling security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Transmission Medium Security		cabling carrying data or supporting information services from interception, interference or damage. Mechanisms exist to develop, disseminate, review & update procedures to	5	
7.13	Equipment maintenance Equipment maintenance	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional	subset of intersects with	Maintenance Operations Controlled Maintenance	MNT-01 MNT-02	facilitate the implementation of maintenance controls across the enterprise. Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	10 5	
7.13	Equipment maintenance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Timely Maintenance	MNT-03	Mechanisms exist to obtain maintenance support and/or spare parts for systems within a defined Recovery Time Objective (RTO).	5	
7.14	Secure disposal or re-use of equipment	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Secure Disposal, Destruction or Re-Use of Equipment	AST-09	Mechanisms exist to securely dispose of, destroy or repurpose system components using organization-defined techniques and methods to prevent information being recovered from these components.	10	
7.2	Physical entry	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Controlled Ingress & Egress Points	PES-03.1	Physical access control mechanisms exist to limit and monitor physical access	5	
7.2	Physical entry	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Access Logs	PES-03.3	through controlled ingress and egress points. Physical access control mechanisms generate a log entry for each access attempt	5	
7.2	Physical entry	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Working in Secure Areas	PES-04.1	through controlled ingress and egress points. Physical security mechanisms exist to allow only authorized personnel access to secure areas.	5	
7.2	Physical entry	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Visitor Control	PES-06	Physical access control mechanisms exist to identify, authorize and monitor visitors before allowing access to the facility (other than areas designated as publicly accessible).	5	
7.2	Physical entry	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Delivery & Removal	PES-10	Physical security mechanisms exist to isolate information processing facilities from points such as delivery and loading areas and other points to avoid unauthorized access.	5	
7.3	Securing offices, rooms and facilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.	5	
7.3	Securing offices, rooms and facilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	5	
7.3	Securing offices, rooms and facilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Equipment Siting & Protection	PES-12	Physical security mechanisms exist to locate system components within the facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	5	
7.4	Physical security monitoring	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Access Control	PES-03	Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible).	5	
7.4	Physical security monitoring	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	5	
7.4	Physical security monitoring	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Intrusion Alarms / Surveillance Equipment	PES-05.1	Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment.	5	
7.4	Physical security monitoring	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring Physical Access To Information	PES-05.2	Facility security mechanisms exist to monitor physical access to critical information systems or sensitive/regulated data, in addition to the physical access	5	
7.5	Protecting against physical and	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Systems Physical & Environmental Protections		monitoring of the facility. Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
7.5	environmental threats Protecting against physical and environmental threats	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.	5	
7.5	Protecting against physical and environmental threats	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Equipment Siting & Protection	PES-12	Physical security mechanisms exist to locate system components within the facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	5	
7.5	Protecting against physical and environmental threats	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
7.5	Protecting against physical and environmental threats	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
7.6	Working in secure areas	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	10	
7.7	Clear desk and clear screen	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Unattended End-User Equipment	AST-06	Mechanisms exist to implement enhanced protection measures for unattended systems to protect against tampering and unauthorized access.	5	
7.7	Clear desk and clear screen	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
7.7	Clear desk and clear screen	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.	5	
7.8	Equipment siting and protection	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Equipment Siting & Protection	PES-12	Physical security mechanisms exist to locate system components within the facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	10	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	10	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Security of Assets & Media	AST-05	Mechanisms exist to maintain strict control over the internal or external distribution of any kind of sensitive/regulated media.	5	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Unattended End-User Equipment	AST-06	Mechanisms exist to implement enhanced protection measures for unattended systems to protect against tampering and unauthorized access.	5	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Tampering Detection	AST-08	Mechanisms exist to periodically inspect systems and system components for Indicators of Compromise (IoC).	5	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Logical Tampering Protection	AST-15	Mechanisms exist to verify logical configuration settings and the physical integrity of critical technology assets throughout their lifecycle.	5	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Work From Anywhere (WFA) - Telecommuting Security	NET-14.5	Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.	5	
8.0	Technological controls	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
8.1	User endpoint devices	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Unattended End-User Equipment	AST-06	Mechanisms exist to implement enhanced protection measures for unattended systems to protect against tampering and unauthorized access.	5	
8.1	User endpoint devices	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Kiosks & Point of Interaction (Pol) Devices		Mechanisms exist to appropriately protect devices that capture sensitive/regulated data via direct physical interaction from tampering and substitution. Mechanisms exist to restrict the possession and usage of personally-owned	5	
8.1	User endpoint devices	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Use of Personal Devices	AST-12	Mechanisms exist to restrict the possession and usage of personally-owned technology devices within organization-controlled facilities. Mechanisms exist to facilitate the implementation of endpoint security controls.	5	
8.1	User endpoint devices	https://www.iso.org/standard/75652.html	Functional	subset of	Endpoint Security	END-01		10	
8.1	User endpoint devices User endpoint devices	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652 html	Functional Functional	intersects with intersects with	Endpoint Protection Measures Account Lockout	END-02	Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices. Mechanisms exist to enforce a limit for consecutive invalid login attempts by a user during an organization-defined time period and automatically locks the account	5	
8.1	User endpoint devices	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	when the maximum number of unsuccessful attempts is exceeded. Mechanisms exist to implement and govern Mobile Device Management (MDM)	10	
8.1	User endpoint devices	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Access Control For Mobile Devices	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	5	
8.1	User endpoint devices	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Remote Purging	MDM-05	Mechanisms exist to remotely purge selected information from mobile devices.	5	
8.2	Privileged access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Privileged Account Management (PAM)	IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
8.2	Privileged access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Privileged Account Inventories	IAC-16.1	Mechanisms exist to inventory all privileged accounts and validate that each person with elevated privileges is authorized by the appropriate level of organizational management. Mechanisms exist to periodically-review the privileges assigned to individuals and	5	
8.2	Privileged access rights	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional)
8.2	Privileged access rights	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Privileged Accounts	IAC-21.3	Mechanisms exist to restrict the assignment of privileged accounts to organization-	(optional) 5
8.3	Information access	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	subset of	Configuration	CFG-01	management approved personnel and/or roles. Mechanisms exist to facilitate the implementation of configuration management	10
	restriction Information access	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Management Program System Hardening		controls. Mechanisms exist to develop, document and maintain secure baseline	
8.3	restriction	https://www.iso.org/standard/75652.html	Functional	intersects with	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry-accepted system hardening standards. Mechanisms exist to configure systems to provide only essential capabilities by	5
8.3	Information access restriction	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Least Functionality	CFG-03	specifically prohibiting or restricting the use of ports, protocols, and/or services.	5
8.3	Information access	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Role-Based Access	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to-know and fine-grained access control for	5
	restriction	https://www.iso.org/standard/75652.html			Control (RBAC)		sensitive/regulated data access. Mechanisms exist to utilize the concept of least privilege, allowing only authorized	
8.3	Information access restriction	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Least Privilege	IAC-21	access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5
8.3	Information access restriction	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Data Flow Enforcement – Access Control Lists		Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal	5
8.4	Access to source code	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	equal	(ACLs) Access to Program	TDA-20	systems. Mechanisms exist to limit privileges to change software resident within software	10
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Source Code System Hardening		libraries. Mechanisms exist to develop, document and maintain secure baseline	
8.5	Secure authentication	https://www.iso.org/standard/75652.html	Functional	intersects with	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5
8.5	Secure authentication	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10
8.5	Secure authentication	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Endpoint Protection Measures	END-02	Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices. Mechanisms exist to establish a trusted communications path between the user	5
8.5	Secure authentication	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Trusted Path Secure Log-On	END-09	and the security functions of the operating system. Mechanisms exist to utilize a trusted communications path between the user and	5
8.5	Secure authentication	https://www.iso.org/standard/75652.html	Functional	intersects with	Procedures	SEA-17	the security functions of the system. Mechanisms exist to facilitate the implementation of capacity management	5
8.6	Capacity management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Capacity & Performance Management	CAP-01	controls to ensure optimal system performance to meet expected and anticipated future capacity requirements.	10
8.6	Capacity management	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Capacity Planning	CAP-03	Mechanisms exist to conduct capacity planning so that necessary capacity for	5
		https://www.iso.org/standard/75652.html					during contingency operations. Mechanisms exist to utilize antimalware technologies to detect and eradicate	
8.7	Protection against malware	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Malicious Code Protection (Anti-Malware)	END-04	malicious code.	5
8.7	Protection against malware	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Automatic Antimalware Signature Updates	END-04.1	Mechanisms exist to automatically update antimalware technologies, including signature definitions.	5
8.8	Management of technical vulnerabilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review	CFG-03.1	Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5
		Buy a copy of ISO 27002 for control content:			Cybersecurity & Data		Mechanisms exist to provide a cybersecurity & data protection controls oversight	
8.8	vulnerabilities	https://www.iso.org/standard/75652.html	Functional	intersects with	Protection Controls Oversight		function that reports to the organization's executive leadership.	5
8.8	Management of technical vulnerabilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Functional Review Of Cybersecurity & Data		Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5
		Buy a copy of ISO 27002 for control content:			Protection Controls Vulnerabilities Related To		Mechanisms exist to report system vulnerabilities associated with reported	
8.8	vulnerabilities	https://www.iso.org/standard/75652.html	Functional	intersects with	Incidents	IRO-10.3	cybersecurity & data privacy incidents to organization-defined personnel or roles.	5
8.8	Management of technical vulnerabilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Testing, Training & Monitoring	PRI-08	Mechanisms exist to conduct cybersecurity & data privacy testing, training and monitoring activities	5
8.8	Management of technical	Buy a copy of ISO 27002 for control content:	Functional	subset of	Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability	10
0.0	vulnerabilities	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functionat	Subset of	(VPMP)		management controls. Mechanisms exist to define and manage the scope for its attack surface	
8.8	vulnerabilities Management of technical	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Attack Surface Scope Vulnerability	VPM-01.1	management activities. Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and	5
8.8	vulnerabilities	https://www.iso.org/standard/75652.html	Functional	intersects with	Remediation Process	VPM-02	remediated. Mechanisms exist to identify and assign a risk ranking to newly discovered security	5
8.8	Management of technical vulnerabilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Vulnerability Ranking	VPM-03	vulnerabilities using reputable outside sources for security vulnerability information.	5
8.8	Management of technical vulnerabilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5
8.8	Management of technical vulnerabilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5
8.9	Configuration management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Configuration Management Database	AST-02.9	Mechanisms exist to maintain a current list of approved technologies (hardware and software).	10
8.9	Configuration	Buy a copy of ISO 27002 for control content:	Functional	subset of	(CMDB) Configuration	CFG-01	Mechanisms exist to facilitate the implementation of configuration management	10
	management Configuration	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Management Program Assignment of	050.04.4	controls. Mechanisms exist to implement a segregation of duties for configuration	
8.9	management	https://www.iso.org/standard/75652.html	Functional	intersects with	Responsibility	CFG-01.1	management that prevents developers from performing production configuration management duties.	5
8.9	Configuration management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	System Hardening Through Baseline	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted	5
	Configuration	Buy a copy of ISO 27002 for control content:			Configurations		system hardening standards. Mechanisms exist to review and update baseline configurations:	
8.9	management	https://www.iso.org/standard/75652.html	Functional	intersects with	Reviews & Updates	CFG-02.1	<ul> <li>(1) At least annually;</li> <li>(2) When required due to so; or</li> <li>(2) As most of constant in the line to so and the second sec</li></ul>	5
8.9	Configuration	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Least Functionality	CFG-03	(3) As part of system component installations and upgrades. Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	5
0.0	management	https://www.iso.org/standard/75652.html			Secure Disposal,		Mechanisms exist to securely dispose of, destroy or repurpose system	5
8.10	Information deletion	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Destruction or Re-Use of Equipment	AST-09	components using organization-defined techniques and methods to prevent information being recovered from these components.	5
8.10	Information deletion	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Physical Media Disposal	DCH-08	Mechanisms exist to securely dispose of media when it is no longer required, using formal procedures.	5
8.10	Information deletion	Buy a copy of ISO 27002 for control content:	Functional	intersects with	System Media	DCH-09	Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity of the information prior to	5
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Sanitization System Media		disposal, release out of organizational control or release for reuse. Mechanisms exist to supervise, track, document and verify system media	
8.10	Information deletion	https://www.iso.org/standard/75652.html	Functional	intersects with	Sanitization Documentation	DCH-09.1	sanitization and disposal actions.	5
8.10	Information deletion	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Sanitization of Personal Data (PD)	DCH-09.3		5
8.10	Information deletion	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.	5
8.10	Information deletion	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Information Disposal	DCH-21	Mechanisms exist to securely dispose of, destroy or erase information.	5
							Mechanisms exist to: (1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law;	
8.10	Information deletion	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Personal Data (PD)	PRI-05	(2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and	5
		https://www.iso.org/standard/75652.html			Retention & Disposal		(3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	
							uconduction of Fib (including originals, copies and arcnived records).	
8.11	Data masking	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Masking Displayed Data	DCH-03.2	Mechanisms exist to apply data masking to sensitive/regulated information that is displayed or printed.	5
0 11	Data macking	Buy a copy of ISO 27002 for control content:	Functional	intersects	Removal, Masking, Encryption, Hashing or	DCH-23.4	Mechanisms exist to remove, mask, encrypt, hash or replace direct identifiers in a	5
8.11	Data masking	https://www.iso.org/standard/75652.html	Functional	intersects with	Replacement of Direct Identifiers	<u>роп-23.4</u>		5
8.11	Data masking	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Masking	PRI-05.3	Mechanisms exist to mask sensitive/regulated data through data anonymization, pseudonymization, redaction or de-identification.	5
8.12	Data leakage prevention	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls.	5
8.12	Data leakage prevention	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	System Hardening Through Baseline	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted	5
		1	1		Configurations		system hardening standards. Mechanisms exist to configure systems utilized in high-risk areas with more	
		Buy a copy of ISO 27002 for control content:			Configure Systems, Components or Services		restrictive baseline configurations.	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
8.12	Data leakage prevention	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Least Functionality		Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	(optional) 5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:				DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.		
8.12	Data leakage prevention	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Data Protection		Mechanisms exist to utilize the concept of least privilege, allowing only authorized	5	
8.12	Data leakage prevention	https://www.iso.org/standard/75652.html	Functional	intersects with	Least Privilege	IAC-21	access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
8.12	Data leakage prevention	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Network Security Controls (NSC) Prevent Discovery of	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC). Mechanisms exist to prevent the public disclosure of internal network information.	5	
8.12	Data leakage prevention	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Internal Information Prevent Unauthorized	NET-03.3	Automated mechanisms exist to prevent the unauthorized exfiltration of	5	
8.12	Data leakage prevention	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Exfiltration Information Leakage Due	NET-03.5	sensitive/regulated data across managed interfaces. Facility security mechanisms exist to protect the system from information leakage	5	
8.12	Data leakage prevention	https://www.iso.org/standard/75652.html	Functional	intersects with	To Electromagnetic Signals Emanations		due to electromagnetic signals emanations.	5	
8.12	Data leakage prevention	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Engineering Principles		Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development,	5	
		Buy a copy of ISO 27002 for control content:			Centralized Management		implementation and modification of systems and services. Mechanisms exist to centrally-manage the organization-wide management and implementation of cybersecurity & data privacy controls and related processes.		
8.12	Data leakage prevention	https://www.iso.org/standard/75652.html	Functional	intersects with	of Cybersecurity & Data Privacy Controls	SEA-01.1		5	
8.13	Information backup	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Data Backups	BCD-11	Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of	5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Testing for Reliability &		the data to satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). Mechanisms exist to routinely test backups that verify the reliability of the backup		
8.13	Information backup	https://www.iso.org/standard/75652.html	Functional	intersects with	Integrity	i	process, as well as the integrity and availability of the data. Mechanisms exist to store backup copies of critical software and other security-	5	
8.13	Information backup	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Separate Storage for Critical Information		related information in a separate facility or in a fire-rated container that is not collocated with the system being backed up.	5	
8.13	Information backup	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cryptographic Protection	BCD-11.4	Cryptographic mechanisms exist to prevent the unauthorized disclosure and/or modification of backup information.	5	
8.14	Redundancy of information processing	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Alternate Storage Site	BCD-08	Mechanisms exist to establish an alternate storage site that includes both the assets and necessary agreements to permit the storage and recovery of system	5	
8.14	facilities Redundancy of information processing	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Alternate Processing Site	BCD-09	backup information. Mechanisms exist to establish an alternate processing site that provides security measures equivalent to that of the primary site.	5	
	facilities Redundancy of	https://www.iso.org/standard/75652.html	. unotionat				Mechanisms exist to maintain a failover system, which is not collocated with the		
8.14	information processing facilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Redundant Secondary System		primary system, application and/or service, which can be activated with little-to-no loss of information or disruption to operations.	5	
8.15	Logging	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
8.15	Logging	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	System Generated Alerts	MON- 01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve	5	
8.15	Logging	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Centralized Collection of	MON-02	integrated situational awareness. Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar automated tool, to support the centralized collection of security-related event	5	
	E020112	https://www.iso.org/standard/75652.html			Security Event Logs		logs. Automated mechanisms exist to correlate both technical and non-technical		
8.15	Logging	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Correlate Monitoring Information	MON- 02.1	information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	5	
8.15	Logging	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Central Review &	MON-	Automated mechanisms exist to centrally collect, review and analyze audit records	5	
		https://www.iso.org/standard/75652.html			Analysis	02.2	from multiple sources. Mechanisms exist to configure systems to produce event logs that contain		
		Buy a copy of ISO 27002 for control content:					sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred;		
8.15	Logging	https://www.iso.org/standard/75652.html	Functional	intersects with	Content of Event Logs	MON-03	<ul><li>(2) When (date and time) the event occurred;</li><li>(3) Where the event occurred;</li><li>(4) The source of the event;</li></ul>	5	
							<ul> <li>(4) The source of the event;</li> <li>(5) The outcome (success or failure) of the event; and</li> <li>(6) The identity of any user/subject associated with the event</li> </ul>		
8.15	Logging	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Privileged Functions Logging	MON- 03.3	Mechanisms exist to log and review the actions of users and/or services with elevated privileges.	5	
8.15	Logging	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Monitoring Reporting	MON-06	Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous activities. Mechanisms exist to protect event logs and audit tools from unauthorized access,	5	
8.15	Logging	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Protection of Event Logs	MON-08	modification and deletion.	5	
8.16	Monitoring activities		Functional	aubaat of	Continuous Manitaring	MON 01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring	10	
,		https://www.iso.org/standard/75652.html	Functional	subset of	Continuous Monitoring Intrusion Detection &	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS /	10	
8.16	Monitoring activities		Functional Functional	subset of intersects with	<u> </u>	MON-01 MON- 01.1	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points.	10 5	
8.16	Monitoring activities Monitoring activities	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Intrusion Detection & Prevention Systems (IDS	MON-	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS /	10 5 5	
		https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Intrusion Detection & Prevention Systems (IDS & IPS) Automated Tools for Real-	MON- 01.1 • MON-	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points. Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation. Mechanisms exist to continuously monitor inbound and outbound	10 5 5 5	
8.16	Monitoring activities	https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional	intersects with intersects with intersects with	Intrusion Detection & Prevention Systems (IDS & IPS) Automated Tools for Real- Time Analysis Inbound & Outbound Communications Traffic Security Event Monitoring	MON- 01.1 MON- 01.2 MON- 01.3 MON- 01.8	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points. Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation.	10 5 5 5 5	
8.16 8.16	Monitoring activities Monitoring activities	https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional Functional	intersects with intersects with intersects with	Intrusion Detection & Prevention Systems (IDS & IPS) Automated Tools for Real- Time Analysis Inbound & Outbound Communications Traffic	MON- 01.1 MON- 01.2 MON- 01.3 MON-	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points. Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation. Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions. Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures. Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	10 5 5 5 5 5 5	
8.16 8.16 8.16	Monitoring activities Monitoring activities Monitoring activities Monitoring activities Clock synchronization	https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional Functional Functional	intersects with intersects with intersects with intersects with	Intrusion Detection & Prevention Systems (IDS & IPS) Automated Tools for Real- Time Analysis Inbound & Outbound Communications Traffic Security Event Monitoring Central Review & Analysis Clock Synchronization	MON- 01.1 MON- 01.2 MON- 01.3 MON- 01.8 MON- 02.2 SEA-20	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points. Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation. Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions. Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures. Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources. Mechanisms exist to utilize time-synchronization technology to synchronize all critical system clocks.	10 5 5 5 5 5 10	
8.16 8.16 8.16 8.16 8.16 8.17 8.18	Monitoring activities Monitoring activities Monitoring activities Monitoring activities	https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.htmlBuy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional Functional Functional Functional Functional Functional	intersects with intersects with intersects with intersects with intersects with equal equal	Intrusion Detection & Prevention Systems (IDS & IPS) Automated Tools for Real- Time Analysis Inbound & Outbound Communications Traffic Security Event Monitoring Central Review & Analysis	MON- 01.1 MON- 01.2 MON- 01.3 MON- 01.8 MON- 02.2 SEA-20 IAC-20.3	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points. Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation. Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions. Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures. Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources. Mechanisms exist to utilize time-synchronization technology to synchronize all critical system clocks. Mechanisms exist to restrict and tightly control utility programs that are capable of overriding system and application controls.	5 5 5 5 10 10	
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8.16         8.16         8.16         8.16         8.17         8.18         8.19         8.19         8.19         8.19         8.19         8.19         8.19         8.19         8.19         8.20	Monitoring activitiesMonitoring activitiesMonitoring activitiesMonitoring activitiesMonitoring activitiesClock synchronizationUse of privileged utility programsInstallation of software on operational systemsInstallation of software on operational systemsNetworks securityNetworks securityNetworks securityNetworks securityNetworks securityNetworks securityNetworks securityNetworks securitySecurity of network servicesSecurity of network servicesSecurity of network services	https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standard/75652.html         Buy a copy of ISO 27002 for control content:         https://www.iso.org/standa	Functional	intersects with intersects with intersects with equal equal equal subset of intersects with intersects with intersects with intersects with subset of intersects with intersects with intersects with intersects with subset of	Intrusion Detection & Prevention Systems (IDS & IPS) Automated Tools for Real- Time Analysis Inbound & Outbound Communications Traffic Security Event Monitoring Central Review & Analysis Clock Synchronization Use of Privileged Utility Programs Change Management Program Configuration Change Control Test, Validate & Document Changes Prohibit Installation Without Privileged Status Governing Access Restriction for Change Network Diagrams & Data Flow Diagrams (DFDs) Network Security Controls (NSC) Layered Network Defenses Boundary Protection Data Flow Enforcement – Access Control Lists (ACLs) Deny Traffic by Default & Allow Traffic by Default & Allow Traffic by Exception Network Segmentation, (macrosegementation) DMZ Networks Network Security Controls (NSC) Boundary Protection	MON- 01.1 MON- 01.2 MON- 01.3 MON- 01.3 MON- 01.3 MON- 02.2 SEA-20 IAC-20.3 IAC-20.3 CHG-01 CHG-02.2 CHG-02.2 CHG-02.2 END-03 END-03.2 END-03.2 CHG-02.2 CHG-02.2 CHG-02.2 NET-04 NET-04 NET-04 NET-04 NET-04 NET-04 NET-04 NET-04	controls. Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points. Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation. Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions. Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures. Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources. Mechanisms exist to utilize time-synchronization technology to synchronize all critical system and application controls. Mechanisms exist to restrict and tightly control utility programs that are capable of overriding system and application controls. Mechanisms exist to govern the technical configuration change control processes. Mechanisms exist to appropriately test and document proposed changes in a non- production environment before changes are implemented in a production <i>environment</i> . Automated mechanisms exist to prohibit software installations without explicitly assigned privileged status. Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems. Mechanisms exist to maintain network architecture diagrams that: (1) Contain sufficient detail to assess the security of the network's architecture; (2) Reflect the current architecture of the network environment; and (3) Document all sensitive/regulated data flows. Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC). Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between ultrusted networks. Mechanisms exist to design, implement and review firew	5 5 5 5 10 10 10 10 5 5 5 5 5 5 5 5 5 5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional) (optional)
8.21	Security of network services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5
8.21	Security of network services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for	5
8.22	Segregation of networks	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Network Segmentation (macrosegementation)	NET-06	cybersecurity & data privacy controls. Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network	5
8.22	Segregation of networks	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Security Management Subnets	NET-06.1	resources. Mechanisms exist to implement security management subnets to isolate security tools and support components from other internal system components by implementing separate subnetworks with managed interfaces to other	5
8.22	Segregation of networks	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Demilitarized Zones (DMZ)	WEB-02	components of the system. Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain services, protocols and ports.	5
8.23	Web filtering	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	DNS & Content Filtering	NET-18	Mechanisms exist to force Internet-bound network traffic through a proxy device (e.g., Policy Enforcement Point (PEP)) for URL content filtering and DNS filtering to limit a user's ability to connect to dangerous or prohibited Internet sites.	10
8.24	Use of cryptography	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	10
8.24	Use of cryptography	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5
8.24	Use of cryptography	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Transmission Integrity	CRY-04	Cryptographic mechanisms exist to protect the integrity of data being transmitted. Cryptographic mechanisms exist to prevent unauthorized disclosure of data at	5
8.24	Use of cryptography	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Encrypting Data At Rest Cryptographic Key	CRY-05	rest. Mechanisms exist to facilitate cryptographic key management controls to protect	5
8.24	Use of cryptography Use of cryptography	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with	Management Cryptographic Key Loss	CRY-09 CRY-09.3	the confidentiality, integrity and availability of keys. Mechanisms exist to ensure the availability of information in the event of the loss of	5
8.24	Use of cryptography	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	or Change Control & Distribution of Cryptographic Keys		cryptographic keys by individual users. Mechanisms exist to facilitate the secure distribution of symmetric and asymmetric cryptographic keys using industry recognized key management	5
8.25	Secure development life	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	System Hardening Through Baseline	CFG-02	technology and processes. Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted	5
8.25		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Configurations Development & Test Environment	CFG-02.4	system hardening standards. Mechanisms exist to manage baseline configurations for development and test environments separately from operational baseline configurations to minimize the	5
8.25	cycle Secure development life		Functional	intersects with	Configurations Threat Analysis & Flaw Remediation During		risk of unintentional changes. Mechanisms exist to require system developers and integrators to create and execute a Security Testing and Evaluation (ST&E) plan, or similar process, to	5
	cycle Secure development life	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:			Development Secure Development Life	1	identify and remediate flaws during development. Mechanisms exist to ensure changes to systems within the Secure Development	
8.25	cycle	https://www.iso.org/standard/75652.html	Functional	intersects with	Cycle (SDLC) Management	PRM-07	Life Cycle (SDLC) are controlled through formal change control procedures. Mechanisms exist to facilitate the implementation of tailored development and	5
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Technology Development & Acquisition	TDA-01	acquisition strategies, contract tools and procurement methods to meet unique business needs.	10
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Minimum Viable Product (MVP) Security Requirements	TDA-02	Mechanisms exist to ensure risk-based technical and functional specifications are established to define a Minimum Viable Product (MVP).	5
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Development Methods, Techniques & Processes	TDA-02.3	Mechanisms exist to require software developers to ensure that their software development processes employ industry-recognized secure practices for secure programming, engineering methods, quality control processes and validation techniques to minimize flawed and/or malformed software.	5
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	5
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Development Environments	TDA-07	Mechanisms exist to maintain a segmented development network to ensure a secure development environment.	5
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Separation of Development, Testing and Operational Environments	TDA-08	Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational environment and to ensure no impact to production systems.	5
8.25	Secure development life cycle	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation processes.	5
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Application & Program Interface (API) Security	CLD-04	Mechanisms exist to ensure support for secure interoperability between components with Application & Program Interfaces (APIs).	5
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5
8.26	Application security requirements Application security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted. Cryptographic mechanisms exist to protect the integrity of data being transmitted.	5
8.26	requirements	https://www.iso.org/standard/75652.html	Functional	intersects with	Transmission Integrity	CRY-04	Mechanisms exist to identify critical system components and functions by	5
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Requirements Definition	PRM-05	performing a criticality analysis for critical systems, system components or services at pre-defined decision points in the Secure Development Life Cycle (SDLC). Mechanisms exist to facilitate the implementation of industry-recognized	5
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Secure Engineering Principles	SEA-01	cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to develop an enterprise architecture, aligned with industry-	10
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	5
8.27	Secure system architecture and engineering principles	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Periodic Review	CFG-03.1	Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5
8.27	Secure system architecture and engineering principles	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services.	10
8.27	Secure system architecture and engineering principles	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Developer Architecture & Design	TDA-05	Mechanisms exist to require the developers of systems, system components or services to produce a design specification and security architecture that: (1) Is consistent with and supportive of the organization's security architecture which is established within and is an integrated part of the organization's enterprise architecture; (2) Accurately and completely describes the required security functionality and the allocation of security controls among physical and logical components; and (3) Expresses how individual security functions, mechanisms and services work together to provide required security capabilities and a unified approach to protection.	
8.27	Secure system architecture and engineering principles	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	5
8.28	Secure coding	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	10
8.29	Security testing in development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	5

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
							Mechanisms exist to conduct specialized assessments for: (1) Statutory, regulatory and contractual compliance obligations; (2) Monitoring capabilities; (3) Mobile devices;	(optional)	
8.29	Security testing in development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Specialized Assessments	iAO-02.2	<ul> <li>(4) Databases;</li> <li>(5) Application security;</li> <li>(6) Embedded technologies (e.g., IoT, OT, etc.);</li> <li>(7) Vulnerability management;</li> <li>(8) Malicious code;</li> <li>(9) Insider threats;</li> </ul>	5	
8.29	Security testing in development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Minimum Viable Product (MVP) Security Requirements	TDA-02	<ul> <li>(10) Performance/load testing; and/or</li> <li>(11) Artificial Intelligence and Automonous Technologies (AAT)</li> <li>Mechanisms exist to ensure risk-based technical and functional specifications are established to define a Minimum Viable Product (MVP).</li> </ul>	5	
8.29	development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Development Methods, Techniques & Processes	TDA-02.3	Mechanisms exist to require software developers to ensure that their software development processes employ industry-recognized secure practices for secure programming, engineering methods, quality control processes and validation techniques to minimize flawed and/or malformed software.	5	
8.29	Security testing in development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Criticality Analysis	TDA-06.1	Mechanisms exist to require the developer of the system, system component or service to perform a criticality analysis at organization-defined decision points in the Secure Development Life Cycle (SDLC). Mechanisms exist to require system developers/integrators consult with	5	
8.29	Security testing in development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	<ul> <li>cybersecurity &amp; data privacy personnel to:</li> <li>(1) Create and implement a Security Testing and Evaluation (ST&amp;E) plan, or similar capability;</li> <li>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and</li> <li>(3) Document the results of the security testing/evaluation and flaw remediation processes.</li> </ul>	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Supply Chain Risk Assessment	RSK-09.1	Mechanisms exist to periodically assess supply chain risks associated with systems, system components and services.	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Technology Development & Acquisition	TDA-01	Mechanisms exist to facilitate the implementation of tailored development and acquisition strategies, contract tools and procurement methods to meet unique	10	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Minimum Viable Product (MVP) Security Requirements	1	business needs. Mechanisms exist to ensure risk-based technical and functional specifications are established to define a Minimum Viable Product (MVP).	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Developer Architecture & Design	TDA-05	Mechanisms exist to require the developers of systems, system components or services to produce a design specification and security architecture that: (1) Is consistent with and supportive of the organization's security architecture which is established within and is an integrated part of the organization's enterprise architecture; (2) Accurately and completely describes the required security functionality and the allocation of security controls among physical and logical components; and (3) Expresses how individual security functions, mechanisms and services work together to provide required security capabilities and a unified approach to protection.		
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	<ul> <li>Mechanisms exist to require system developers/integrators consult with cybersecurity &amp; data privacy personnel to:</li> <li>(1) Create and implement a Security Testing and Evaluation (ST&amp;E) plan, or similar capability;</li> <li>(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and</li> <li>(3) Document the results of the security testing/evaluation and flaw remediation processes.</li> </ul>	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Developer Configuration Management	TDA-14	Mechanisms exist to require system developers and integrators to perform configuration management during system design, development, implementation and operation.	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Access to Program Source Code	TDA-20	Mechanisms exist to limit privileges to change software resident within software libraries.	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
8.30	Outsourced development	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Supply Chain Protection		Mechanisms exist to evaluate security risks associated with the services and product supply chain. Mechanisms exist to mitigate the risks associated with third-party access to the	5	
8.30	Outsourced development	https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Services	TPM-04	organization's systems and data. Mechanisms exist to require contractual requirements for cybersecurity & data	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with intersects with	Third-Party Contract Requirements Third-Party Personnel	TPM-05 TPM-06	privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data. Mechanisms exist to control personnel security requirements including security	5	
8.31	Separation of development, test and production environments	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Security Secure Development Environments	TDA-07	roles and responsibilities for third-party providers. Mechanisms exist to maintain a segmented development network to ensure a secure development environment.	5	
8.31	Separation of development, test and production environments	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Separation of Development, Testing and Operational	TDA-08	Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational environment and to ensure no impact to production systems.	5	
8.32	Change management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	subset of intersects with	Environments Change Management Program Configuration Change	CHG-01 CHG-02	Mechanisms exist to facilitate the implementation of a change management program. Mechanisms exist to govern the technical configuration change control processes.	10	
8.32	Change management Change management	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Control Test, Validate & Document Changes		Mechanisms exist to appropriately test and document proposed changes in a non- production environment before changes are implemented in a production environment.	5	
8.32	Change management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Secure Development Life Cycle (SDLC) Management		Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
8.32	Change management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Developer Configuration Management De-Identification		Mechanisms exist to require system developers and integrators to perform configuration management during system design, development, implementation and operation. Mechanisms exist to anonymize data by removing Personal Data (PD) from	5	
8.33	Test information	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	(Anonymization)	DCH-23	datasets. Mechanisms exist to approve, document and control the use of live data in	5	
8.33	Protection of information	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional	intersects with subset of	Use of Live Data Statutory, Regulatory & Contractual Compliance	TDA-10 CPL-01	development and test environments. Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5 10	
8.34	testing Protection of information systems during audit testing	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Protection Controls Oversight	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
8.34	Protection of information	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Internal Audit Function	CPL-02.1	Mechanisms exist to implement an internal audit function that is capable of providing senior organization management with insights into the appropriateness of the organization's technology and information governance processes.	5	
8.34	Protection of information systems during audit testing	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	Mechanisms exist to ensure managers regularly review the processes and documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements	5	
8.34	Protection of information systems during audit testing	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Audit Activities	CPL-04	requirements. Mechanisms exist to thoughtfully plan audits by including input from operational risk and compliance partners to minimize the impact of audit-related activities on business operations.	5	