Set Theory Relationship Mapping (STRM)



Reference Document: Secure Controls Framework (SCF) version 2024.2

Focal Document: ISO 27002:2022

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

STRM URL: https://content.securecontrolsframework.com/strm/scf-2024-2-iso-27002-2022.pdf

Set Theory Relationship Mapping (STRM) is well-suited for mapping between sets of elements that exist in two distinct concepts that are mostly the same as each other (e.g., cybersecurity & data privacy requirements). STRM also allows the strength of the mapping to be captured.

STRM relies on a justification for the relationship claim. There are three (3) options for the rationale, which is a high-level context within which the two concepts are related:

- 1. Syntactic: How similar is the wording that expresses the two concepts? This is a word-for-word analysis of the relationship, not an interpretation of the language.
- 2. Semantic: How similar are the meanings of the two concepts? This involves some interpretation of each concept's language.
- 3. Functional: How similar are the <u>results</u> of executing the two concepts? This involves understanding what will happen if the two concepts are implemented, performed, or otherwise executed.

Based on NIST IR 8477, STRM supports five (5) five relationship types to describe the logical similarity between two distinct concepts:

- 1. Subset Of
- 2. Intersects With
- 3. Equal
- 4. Superset Of
- 5. No Relationship



Relationship Type #1: SUBSET OF

Focal Document Element is a subset of SCF control. In other words, SCF control contains everything that Focal Document Element does and more.

Relationship Type #2: INTERSECTS WITH

SCF control has some overlap with Focal Document Element, but each includes content that the other does not.

Relationship Type #3: EQUAL

SCF control and Focal Document Element are the same, although not necessarily identical.

Relationship Type #4: SUPERSET OF

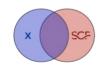
Focal Document Element is a superset of SCF control. In other words, Focal Document Element contains everything that SCF control does and more.

Relationship Type #5: NO RELATIONSHIP

SCF control and Focal Document Element are unrelated; their content does not overlap.



SUBSET OF Relative Relationship Strength (control versus control)



INTERSECTS WITH Relative Relationship Strength (control versus control)



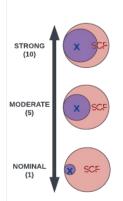
EQUAL Relative Relationship Strength (control versus control)

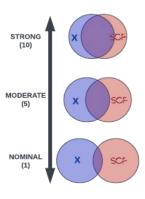


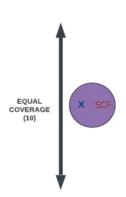
SUPERSET OF Relative Relationship Strength (control versus control)

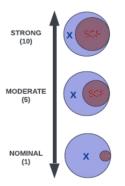


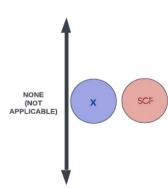
NO RELATIONSHIP
Relative Relationship Strength
(control versus control)











			STRM	STRM			Secure Controls Framework (SCF)	Strength of	
FDE #	FDE Name	Focal Document Element (FDE) Description Buy a copy of ISO 27002 for control content:	Rationale	Relationship	SCF Control	SCF #	Control Description	Relationship (optional)	Notes (optional)
1.0	Scope	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.
2.0	Normative references Terms, definitions and abbreviated	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 Mechanisms exist to standardize technology and process terminology to reduce	N/A	No requirements to map to.
3.0	terms	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Standardized Terminology	SEA-02.1	Confusion amongst groups and departments. Mechanisms exist to standardize technology and process terminology to reduce	5	
3.1	Terms and definitions	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Standardized Terminology	SEA-02.1	Confusion amongst groups and departments. Mechanisms exist to standardize technology and process terminology to reduce	5	
3.2	Abbreviated terms	https://www.iso.org/standard/75652.html Buy a copy of ISO 27002 for control content:	Functional	intersects with	Standardized Terminology	SEA-02.1	confusion amongst groups and departments.	5	
4.0	Structure of this document	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.
4.1	Clauses	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.
4.2	Themes and attributes	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.
4.3	Control layout	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.
5.0	Organizational controls	https://www.iso.org/standard/75652.html	Functional	no relationship	N/A Cybersecurity & Data	N/A	N/A Mechanisms exist to facilitate the implementation of cybersecurity & data protection	N/A	No requirements to map to.
			Functional	subset of	Protection Governance Program	GOV-01	governance controls.	10	
					Publishing Cybersecurity &		Mechanisms exist to establish, maintain and disseminate cybersecurity & data		
			Functional	intersects with	Data Protection Documentation	GOV-02	protection policies, standards and procedures.	5	
					Periodic Review & Update		Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur		
			Functional	intersects with	of Cybersecurity & Data Protection Program	GOV-03	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 privacy controls.	10	
		https://www.iso.org/standard/73032.html					Mechanisms exist to:		
							 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; 		
					Dissemination of Data		 Ensure that organizational data privacy practices are publicly available through organizational websites or document repositories; 		
			Functional	intersects with	Privacy Program Information	PRI-01.3	provide feedback and/or direct questions to data privacy office(s) regarding data	5	
							privacy practices; and • Inform data subjects when changes are made to the privacy notice and the nature of		
					Andread C.		such changes.		
			Functional	intersects with	Assigned Cybersecurity & Data Protection	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an	5	
			Functional	intersects with	Responsibilities Roles & Responsibilities	HRS-03	enterprise-wide cybersecurity & data protection program. Mechanisms exist to define cybersecurity responsibilities for all personnel.	5	
	Information				Roles With Special		Mechanisms exist to ensure that individuals accessing a system that stores, transmits or		
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	Protection Measures	HRS-04.1	processes information requiring special protection satisfy organization-defined personnel screening criteria.	5	
			Functional	intersects with	Responsible, Accountable, Supportive, Consulted &	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate	5	
			Tunctional	incisces with	Informed (RASCI) Matrix	11111 03.4	assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	J	
			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	
		Buy a copy of ISO 27002 for control content:	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.	5	
5.3	Segregation of duties	https://www.iso.org/standard/75652.html	Functional	intersects with	Incompatible Roles	HRS-12	Mechanisms exist to avoid incompatible development-specific roles through limiting and reviewing developer privileges to change hardware, software and firmware	5	
					Cybersecurity & Data		components within a production/operational environment. Mechanisms exist to facilitate the implementation of cybersecurity & data protection		
			Functional	subset of	Protection Governance Program	GOV-01	governance controls.	10	
			Functional	subset of	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
			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 types	5	
							of information to which they have access on the system. Mechanisms exist to require all employees and contractors to apply cybersecurity &		
			Functional	intersects with	Terms of Employment	HRS-05	data privacy principles in their daily work. Mechanisms exist to define acceptable and unacceptable rules of behavior for the use	5	
			Functional	intersects with	Rules of Behavior	HRS-05.1	of technologies, including consequences for unacceptable behavior. Mechanisms exist to define rules of behavior that contain explicit restrictions on the	5	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Social Media & Social Networking Restrictions	HRS-05.2	use of social media and networking sites, posting information on commercial websites and sharing account information.	5	
		https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Communications	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	5	
					Technology Cybersecurity & Data		used maliciously. Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-	_	
			Functional	subset of	Privacy Portfolio Management	PRM-01	related resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives.	10	
			Functional	intersects with	Cybersecurity & Data Privacy Resource	PRM-02	Mechanisms exist to address all capital planning and investment requests, including the resources needed to implement the cybersecurity & data privacy programs and	5	
					Management		document all exceptions to this requirement. Mechanisms exist to provide role-based cybersecurity & data privacy-related training:		
			Functional	intersects with	Role-Based Cybersecurity	SAT-03	Before authorizing access to the system or performing assigned duties; When required by system changes; and	5	
					& Data Privacy Training		Annually thereafter.	_	
5.5	Contact with authorities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Contacts With Authorities	GOV-06	Mechanisms exist to identify and document appropriate contacts with relevant law enforcement and regulatory bodies.	10	
							Mechanisms exist to establish contact with selected groups and associations within the cybersecurity & data privacy communities to:		
							Facilitate ongoing cybersecurity & data privacy education and training for organizational personnel:		
5.6	Contact with special interest groups	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Contacts With Groups & Associations	GOV-07	organizational personner; - Maintain currency with recommended cybersecurity & data privacy practices, techniques and technologies; and	10	
							 Share current cybersecurity and/or data privacy-related information including threats, vulnerabilities and incidents. 		
					Monitoring For		wumerabilities and incidents. Mechanisms exist to monitor for evidence of unauthorized exfiltration or disclosure of		
			Functional	intersects with	Information Disclosure	MON-11	non-public information. Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC).	5	
			Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	and and confidence (IOC).	5	
							Mechanisms exist to implement a threat intelligence program that includes a cross-		
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content:	Functional	subset of	Threat Intelligence 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 resonance and recupent architise.	10	
J.,	us memberies	https://www.iso.org/standard/75652.html	Functional	intersects with	Indicators of Exposure	THR-02	hunting, response and recovery activities. Mechanisms exist to develop indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
			Functional	intersects with	(IOE) Threat Intelligence Feeds	THR-03	attack vectors that attackers could use to attack the organization. Mechanisms exist to maintain situational awareness of evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the	5	
			runctional	intersects with		11114-03	implementation of preventative and compensating controls.	,	
			Functional	intersects with	Threat Intelligence Reporting	THR-03.1	Mechanisms exist to utilize external threat intelligence feeds to generate and disseminate organization-specific security alerts, advisories and/or directives.	5	
			Functional	subset of	Cybersecurity & Data Privacy Portfolio	PRM-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-	10	
			runctional	subset or	Management	rnw-U1	related resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives. Mechanisms exist to assess cybersecurity & data privacy controls in system project	10	
			Functional	intersects with	Cybersecurity & Data Privacy In Project	PRM-04	development to determine the extent to which the controls are implemented correctly,	5	
					Management		operating as intended and producing the desired outcome with respect to meeting the requirements. Machanisms exist to identify critical system components and functions by performing a		
			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	5	
					Definition		decision points in the Secure Development Life Cycle (SDLC).		
			Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
							Mechanisms exist to identify:		
					i .	l	 Assumptions affecting risk assessments, risk response and risk monitoring; 	1	1
	Information security in project	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Risk Framing	RSK-01.1	Constraints affecting risk assessments, risk response and risk monitoring;	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 Framing	RSK-01.1	Constraints affecting risk assessments, risk response and risk monitoring; The organizational risk tolerance; and Priorities, benefits and trade-offs considered by the organization for managing risk.	5	



FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF II	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
			Rationale	Kelationship			Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption.	(optional)	
			Functional	intersects with	Risk Assessment	RSK-04	modification or destruction of the organization's systems and data.	5	
			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	
			Functional	intersects with	Risk Response	RSK-06.1	assessments, incidents and audits to ensure proper remediation has been performed.	5	
			Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	Mechanisms exist to develop an enterprise architecture, aligned with industry- recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other	5	
			Functional	intersects with	Asset-Service	AST-01.1	organizations. Mechanisms exist to identify and assess the security of technology assets that support	5	
			Functional	intersects with	Dependencies Stakeholder Identification	AST-01.2	more than one critical business function. Mechanisms exist to identify and involve pertinent stakeholders of critical systems,	5	
			Tunctona	intersees with	& Involvement	751 01.1	applications and services to support the ongoing secure management of those assets. Mechanisms exist to perform inventories of technology assets that:	,	
			Functional	intersects with	Asset Inventories	AST-02	**************************************	5	
			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	
	Inventory of information and other	Buy a copy of ISO 27002 for control content:	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	associated assets	https://www.iso.org/standard/75652.html	Functional	intersects with	Accountability Information	AST-03.1	understanding or requirements for asset protection. Mechanisms exist to include capturing the name, position and/or role of individuals responsible/accountable for administering assets as part of the technology asset	5	
					Network Diagrams & Data		inventory process. Mechanisms exist to maintain network architecture diagrams that: - Contain sufficient detail to assess the security of the network's architecture:		
			Functional	intersects with	Flow Diagrams (DFDs)	AST-04	Reflect the current architecture of the network environment; and Document all sensitive/regulated data flows.	5	
			Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls. Mechanisms exist to ensure data and assets are categorized in accordance with	10	
			Functional	intersects with	Data & Asset Classification	DCH-02	applicable statutory, regulatory and contractual requirements. Mechanisms exist to establish, maintain and update an inventory that contains a listing	5	
			Functional	intersects with	Inventory of Personal Data	PRI-05.5	of all programs and systems identified as collecting, using, maintaining, or sharing Personal Data (PD).	5	
			Functional	intersects with	Cybersecurity & Data Privacy Requirements Definition	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 (SDLC).	5	
			Functional	intersects with	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	5	
			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	5	
			Functional	intersects with	Custodians	DCH-07.1	security requirements. 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	
	otilei associateu assets	https://www.iso.org/stahuard//3032.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	
			Functional	intersects with	Use of Communications	HRS-05.3	and snaming account information. Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if	5	
			Functional	intersects with	Technology Access Agreements	HRS-06	used maliciously. Mechanisms exist to require internal and third-party users to sign appropriate 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	agreements prior to being granted access. Mechanisms exist to ensure that employees and third-party users return all organizational assets in their possession upon termination of employment, contract or	10	
		nttps://www.iso.org/standard//5652.ntml					agreement. Mechanisms exist to determine cybersecurity & data privacy control applicability by		
			Functional	intersects with	Asset Scope Classification	AST-04.1	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	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	
		https://www.iso.org/standard/75052.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. Mechanisms exist to facilitate data governance to oversee the organization's policies,	5	
			Functional	intersects with	Data Governance	GOV-10	standards and procedures so that sensitive/regulated data is effectively managed and maintained in accordance with applicable statutory, regulatory and contractual obligations.	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	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	10	
			Functional	intersects with	Transmission Confidentiality	CRY-03	security requirements. Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
			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	
			Functional	intersects with	Custodians	DCH-07.1	Mechanisms exist to identify custodians throughout the transport of digital or non- digital media. Mechanisms exist to utilize a process to assist users in making information sharing	5	
			Functional	intersects with	Information Sharing Ad-Hoc Transfers	DCH-14 DCH-17	decisions to ensure data is appropriately protected. Mechanisms exist to secure ad-hoc exchanges of large digital files with internal or	5	
			Functional	intersects with	Terms of Employment	HRS-05	external parties. Mechanisms exist to require all employees and contractors to apply cybersecurity & data privacy principles in their daily work.	5	
			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	
			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. Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar	5	
5.14	Information transfer	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Confidentiality Agreements	HRS-06.1	confidentiality agreements that reflect the needs to protect data and operational details, or both employees and third-parties.	5	
			Functional	subset of	Network Security Controls (NSC)	NET-01	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	10	
			Functional	intersects with	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	restrict connections between untrusted networks and internal systems.	5	
			Functional	intersects with	Deny Traffic by Default & Allow Traffic by Exception	NET-04.1	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 exception).	5	
			Functional	intersects with	Electronic Messaging	NET-13	Mechanisms exist to protect the confidentiality, integrity and availability of electronic messaging communications.	5	
			Functional	intersects with	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.	5	
				to an and a second	Physical & Environmental		Mechanisms exist to facilitate the operation of physical and environmental protection	_	
			Functional	intersects with	Protections Identity & Access	PES-01	controls. Mechanisms exist to facilitate the implementation of identification and access	5	
			Functional	subset of	Management (IAM) Identification &	IAC-01	management controls. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	10	
			Functional	intersects with	Authentication for Organizational Users	IAC-02	(AAA) organizational users and processes acting on behalf of organizational users. Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and	5	
			Functional	intersects with	Role-Based Access Control (RBAC)	IAC-08	resources that applies need-to-know and fine-grained access control for sensitive/regulated data access.	5	
			Functional	intersects with	Account Management Privileged Account	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts. Mechanisms exist to restrict and control privileged access rights for users and services.	5	
			Functional	intersects with	Management (PAM) Periodic Review of Account	IAC-16	Mechanisms exist to periodically-review the privileges assigned to individuals and	5	
			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. Mechanisms exist to utilize the concept of least privilege, allowing only authorized	5	
5.15	Access control	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Least Privilege	IAC-21	access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
3.15	Access control	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 (ontional)	Notes (optional)
			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 facility officially designated as publicly accessible).	5	
			Functional	intersects with	Role-Based Physical Access	PES-02.1	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	
			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	
			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	
			Functional	intersects with	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	5	
			Functional	intersects with	Authentication for Non- Organizational Users	IAC-03	(AAA) third-party users and processes that provide services to the organization.	5	
			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	
			Functional	intersects with	Identification & Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5	
		Buy a copy of ISO 27002 for control content:	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	https://www.iso.org/standard/75652.html	Functional	intersects with	(User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and systems.	5	
			Functional	intersects with	User Identity (ID) Management Cross-Organization	IAC-09.1	Mechanisms exist to ensure proper user identification management for non-consumer users and administrators. Mechanisms exist to coordinate username identifiers with external organizations for	5	
			Functional	intersects with	Management Account Management	IAC-09.4	cross-organization management of identifiers. Mechanisms exist to proactively govern account management of individual, group,	5	
			Functional	intersects with	Disable Inactive Accounts	IAC-15.3	system, service, application, guest and temporary accounts. Automated mechanisms exist to disable inactive accounts after an organization-defined	5	
			Functional	intersects with	Restrictions on Shared Groups / Accounts	IAC-15.5	time period. Mechanisms exist to authorize the use of shared/group accounts only under certain organization-defined conditions.	5	
			Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to securely manage authenticators for users and devices.	5	
			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	
	Authorit 1-4	Buy a copy of ISO 27002 for control content:	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	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. Mechanisms exist to ensure vendor-supplied defaults are changed as part of the	5	
			Functional	intersects with	Vendor-Supplied Defaults User Responsibilities for	IAC-10.8	installation process. Mechanisms exist to compel users to follow accepted practices in the use of	5	
			Functional	intersects with	User Responsibilities for Account Management	IAC-18	authentication mechanisms (e.g., passwords, passphrases, physical or logical security tokens, smart cards, certificates, etc.).	5	
			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. Machanisms exist to facilitate the implementation of identification and access	5	
			Functional	subset of	Management (IAM) User Provisioning & De-	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls. Mechanisms exist to utilize a formal user registration and de-registration process that	10	
			Functional	intersects with	Provisioning	IAC-07	governs the assignment of access rights. Mechanisms exist to revoke user access rights following changes in personnel roles and	5	
			Functional	intersects with	Change of Roles & Duties Termination of	IAC-07.1	duties, if no longer necessary or permitted. Mechanisms exist to revoke user access rights in a timely manner, upon termination of	5	
			Functional	intersects with	Employment Authenticator	IAC-10	employment or contract. Mechanisms exist to securely manage authenticators for users and devices.	5	
			Functional	intersects with	Management Password Managers	IAC-10.11	Mechanisms exist to protect and store passwords via a password manager tool.	5	
			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	
			Functional	intersects with	Automated System Account Management	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services).	5	
			Functional	intersects with	(Directory Services) Removal of Temporary /	IAC-15.2	Automated mechanisms exist to disable or remove temporary and emergency accounts	5	
			Functional	intersects with	Privileged Account Management (PAM)	IAC-16	after an organization-defined time period for each type of account. Mechanisms exist to restrict and control privileged access rights for users and services.	5	
			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	5	
			Functional	intersects with	Periodic Review of Account	IAC-17	management. 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: https://www.iso.org/standard/75652.html			Privileges		unnecessary privileges, as necessary. Mechanisms exist to prevent the sharing of generic IDs, passwords or other generic		
			Functional	intersects with	Credential Sharing Access Enforcement	IAC-19	authentication methods. Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to	5	
			Functional	intersects with	Access To Sensitive /	IAC-20.1	the principle of "least privilege." Mechanisms exist to limit access to sensitive/regulated data to only those individuals	5	
			Functional	intersects with	Regulated Data Database Access	IAC-20.2	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 access.	5	
			Functional	intersects with	Use of Privileged Utility	IAC-20.3	Mechanisms exist to restrict and tightly control utility programs that are capable of	5	
			Functional	intersects with	Programs Least Privilege	IAC-20.3	overriding system and application controls. Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with	5	
				intersects with	_		access to processes necessary to accomplish assigned tasks in accordance with organizational business functions. Mechanisms exist to restrict the assignment of privileged accounts to organization-		
			Functional		Privileged Accounts Physical & Environmental	IAC-21.3	defined personnel or roles without management approval. Mechanisms exist to facilitate the operation of physical and environmental protection	5	
			Functional	subset of	Protections	PES-01	controls. Physical access control mechanisms exist to maintain a current list of personnel with	10	
			Functional	intersects with	Physical Access Authorizations	PES-02	authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).	5	
			Functional	intersects with	Role-Based Physical Access	PES-02.1	Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.	5	
			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	
			Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
			Functional	intersects with		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	5	
			runctional	intersects with	Third-Party Inventories	rrw-U1.1	and/or Safety (CIAS) of the organization's systems, applications, services and data. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical	,	
			Functional	intersects with	Third-Party Criticality Assessments	TPM-02	systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
			Functional	intersects with	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain. Mechanisms exist to utilize county cofeepards to limit have from potential pluggraphs.	5	
			Functional	intersects with	Limit Potential Harm Processes To Address	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain. Mechanisms exist to address identified weaknesses or deficiencies in the security of the	5	
			Functional	intersects with	Weaknesses or Deficiencies	TPM-03.3	supply chain	5	
5.19	Information security in supplier	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the organization's systems and data.	5	
	relationships	https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
			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	
			Functional	intersects with	Third-Party Contract	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its	5	
			Functional	intersects with	Requirements Third-Party Personnel	TPM-06	systems, processes and data. Mechanisms exist to control personnel security requirements including security roles	5	
			Functional	intersects with	Security Review of Third-Party	TPM-08	and responsibilities for third-party providers. Mechanisms exist to monitor, regularly review and audit External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity &	5	
					Services Third-Party Deficiency		data privacy controls. Mechanisms exist to address weaknesses or deficiencies in supply chain elements		
			Functional	intersects with	Third-Party Deficiency Remediation	TPM-09	identified during independent or organizational assessments of such elements.	5	
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FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF II	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
			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.	(optional)	
			Punctional	intersects with	Capabilities	11-11-11	Mechanisms exist to provide cybersecurity & data privacy incident information to the	,	
			Functional	intersects with	Supply Chain Coordination	IRO-10.4	provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident.	5	
			Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
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	Limit Potential Harm Third-Party Contract	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain. Mechanisms exist to require contractual requirements for cybersecurity & data privacy	5	
	supplier og cerneties	https://www.socorg/sundard/19992.html	Functional	intersects with	Requirements	TPM-05	requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data. Mechanisms exist to monitor, regularly review and audit External Service Providers	5	
			Functional	intersects with	Review of Third-Party Services	TPM-08	(ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
			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	
			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. Mechanisms exist to facilitate the implementation of cybersecurity & data privacy	5	
			Functional	subset of	Information Assurance (IA) Operations	IAO-01	assessment and authorization controls. Mechanisms exist to formally assess the cybersecurity & data privacy controls in	10	
			Functional	intersects with	Assessments	IAO-02	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	
							expected requirements. Mechanisms exist to conduct specialized assessments for: - Statutory, regulatory and contractual compliance obligations;		
							Monitoring capabilities; Mobile devices;		
			Functional	intersects with	Specialized Assessments	IAO-02.2	Databases; Application security; Embedded technologies (e.g., IoT, OT, etc.);	5	
							Vulnerability management; Malicious code;		
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					Insider threats and Performance/load testing. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM)		
			Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	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	
			Functional	intersects with	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5	
			Functional	intersects with	Acquisition Strategies, Tools & Methods	TPM-03.1	Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	5	
			Functional	intersects with	Third-Party Processing, Storage and Service Locations	TPM-04.4	Mechanisms exist to restrict the location of information processing/storage based on business requirements.	5	
			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	5	
			Functional	intersects with	Security Compromise	TPM-05.1	systems, processes and data. Mechanisms exist to compel External Service Providers (ESPs) to provide notification of actual or potential compromises in the supply chain that can potentially affect or have	5	
					Notification Agreements		adversely affected systems, applications and/or services that the organization utilizes. Mechanisms exist to evaluate security risks associated with the services and product		
			Functional	intersects with	Supply Chain Protection Acquisition Strategies,	TPM-03	supply chain. Mechanisms exist to utilize tailored acquisition strategies, contract tools and	5	
			Functional	intersects with	Tools & Methods Processes To Address	TPM-03.1	procurement methods for the purchase of unique systems, system components or services. Mechanisms exist to address identified weaknesses or deficiencies in the security of the	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	Weaknesses or Deficiencies	TPM-03.3	supply chain Mechanisms exist to monitor, regularly review and audit External Service Providers	5	
			Functional	intersects with	Review of Third-Party Services	TPM-08	(ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
			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	
			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	
			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	
			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	
			Functional	intersects with	Multi-Tenant Environments	CLD-06	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	
			Functional	intersects with	Customer Responsibility Matrix (CRM)	CLD-06.1	Mechanisms exist to formally document a Customer Responsibility Matrix (CRM), delineating assigned responsibilities for controls between the Cloud Service Provider (CSP) and its customers.	5	
			Functional	intersects with	Geolocation Requirements for Processing, Storage and	CLD-09	Mechanisms exist to control the location of cloud processing/storage based on business requirements that includes statutory, regulatory and contractual obligations.	5	
5.23	Information security for use of cloud	Buy a copy of ISO 27002 for control content:	Tunctional	inciscos wai	Service Locations	CLD 03	Mechanisms exist to formally assess the cybersecurity & data privacy controls in	,	
5.23	services	https://www.iso.org/standard/75652.html	Functional	intersects with	Assessments	IAO-02	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	
							expected requirements. Mechanisms exist to conduct specialized assessments for:		
							Statutory, regulatory and contractual compliance obligations; Monitoring capabilities; Mobile devices;		
			Functional	intersects with	Specialized Assessments	IAO-02.2	Databases; Application security; Embedded technologies (e.g., IoT, OT, etc.);	5	
							Vulnerability management; Malicious code; Insider threats and		
					Responsible, Accountable,		Performance/load testing. Mechanisms exist to document and maintain a Responsible, Accountable, Supportive,		
			Functional	intersects with	Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
			Functional	subset of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
	Information security incident	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
5.24	management planning and preparation	https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
			Functional	intersects with	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future	5	
			Functional	intersects with	& Lessons Learned Incident Handling	IRO-02	incidents. Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
			Functional	intersects with	Data Breach	IRO-04.1	Mechanisms exist to address data breaches, or other incidents involving the unauthorized disclosure of sensitive or regulated data, according to applicable laws,	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	IRO-07	regulations and contractual obligations. Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy	5	
			Functional	intersects with	(ISIRT) Situational Awareness For	IRO-09	incident response operations. Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the	5	
			Functional	intersects with	Incidents Incident Handling	IRO-02	incident. Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
			Functional	intersects with	Incident Response Plan (IRP)	IRO-04	reporting, analysis, containment, eradication and recovery. Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
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	Integrated Security Incident Response Team (ISIRT)	IRO-07	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	
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FDE II	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)
			Functional	intersects with	Chain of Custody & Forensics	IRO-08	Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure	(optional)	
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	IRO-13	practices. Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future	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	IRO-08	incidents. Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure	10	
			Functional	subset of	Business Continuity Management System	BCD-01	practices. Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
			Functional	intersects with	(BCMS) Coordinate with Related Plans	BCD-01.1	Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans.	5	
			Functional	intersects with	Coordinate With External Service Providers	BCD-01.2	Mechanisms exist to condinate internal contingency plans with the contingency 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	BCD-04	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	
			Functional	intersects with	Incident Response Training	IRO-05	Mechanisms exist to train personnel in their incident response roles and responsibilities.	5	
			Functional	intersects with	Coordination with Related Plans Coordination With External	IRO-06.1	Mechanisms exist to coordinate incident response testing with organizational elements responsible for related plans.	5	
			Functional	intersects with	Providers Asset Governance	IRO-11.2 AST-01	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 implement	5	
			Functional	intersects with	Asset-Service Dependencies	AST-01.1	and manage asset management controls. Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function.	5	
			Functional	subset of	Business Continuity Management System	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
			Functional	intersects with	(BCMS) Coordinate with Related Plans	BCD-01.1	Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans.	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	Mechanisms exist to condinate internal contingency plans with the contingency plans of external service providers to ensure that contingency requirements can be satisfied.	5	
			Functional	intersects with	Contingency Plan Testing & Exercises	BCD-04	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	
			Functional	intersects with	Incident Response Testing	IRO-06	Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.	5	
			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	
			Functional	intersects with	Asset Governance Statutory, Regulatory &	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls. Mechanisms exist to facilitate the identification and implementation of relevant	5	
			Functional	subset of	Contractual Compliance Cybersecurity & Data	CPL-01	statutory, regulatory and contractual controls. Mechanisms exist to provide a cybersecurity & data protection controls oversight	10	
5.31	Legal, statutory, regulatory and	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Protection Controls Oversight Export-Controlled	CPL-02 CRY-01.2	function that reports to the organization's executive leadership. Mechanisms exist to address the exporting of cryptographic technologies in compliance	5	
5.31	contractual requirements	https://www.iso.org/standard/75652.html	Functional	intersects with	Cryptography Data Privacy Requirements		with relevant statutory and regulatory requirements. Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for		
			Functional	intersects with	for Contractors & Service Providers	PRI-07.1	contractors and service providers.	5	
			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	AST-02.7	Mechanisms exist to protect intellectual Property (IP) rights with software licensing restrictions.	10	
			Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls. Mechanisms exist to retain media and data in accordance with applicable statutory,	10	
			Functional	intersects with	Media & Data Retention	DCH-18	regulatory and contractual obligations. Mechanisms exist to authorize the processing of their Personal Data (PD) prior to its	5	
			Functional	intersects with	Choice & Consent	PRI-03	collection that: - Uses plain language and provide examples to illustrate the potential data privacy risks of the authorization; and - Provides a means for users to decline the authorization.	5	
			Functional	intersects with	Restrict Collection To Identified Purpose	PRI-04	Mechanisms exist to collect Personal Data (PD) only for the purposes identified in the data privacy notice and includes protections against collecting PD from minors without appropriate parental, or legal guardian, consent.	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 Retention & Disposal	PRI-05	Mechanism exist to: **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; **Olispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and **Vise organization-defined techniques or method sto ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
			Functional	intersects with	Internal Use of Personal Data 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: - Takes measures to limit or minimize the amount of PD used for internal testing, training and research purposes; and - Authorizes the use of PD when such information is required for internal testing,	5	
			Functional	intersects with	Usage Restrictions of	PRI-05.4	training and research. Mechanisms exist to restrict the use of Personal Data (PD) to only the authorized	5	
					Sensitive Personal Data Information Sharing With		purpose(s) consistent with applicable laws, regulations and in data privacy notices. Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes		
			Functional	intersects with	Third Parties Data Privacy Requirements	PRI-07	identified in the data privacy notice and with the implicit or explicit consent of the data subject. Mechanisms exist to include data privacy requirements in contracts and other	5	
			Functional	intersects with	for Contractors & Service Providers	PRI-07.1	acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers. Mechanisms exist to conduct a Data Protection Impact Assessment (DPIA) on systems,	5	
			Functional	intersects with	Data Protection Impact Assessment (DPIA)	RSK-10	applications and services that store, process and/or transmit Personal Data (PD) to identify and remediate reasonably-expected risks.	5	
			Functional	subset of	Data Privacy Program	PRI-01	Mechanisms exist to facilitate the implementation and operation of data privacy controls. Mechanisms exist to ensure Personal Data (PD) is protected by security safeguards that	10	
			Functional	intersects with	Security of Personal Data	PRI-01.6	are sufficient and appropriately scoped to protect the confidentiality and integrity of the PD. Mechanisms exist to:	5	
5.34	Privacy and protection of PII	Buy a copy of ISO 27002 for control content:					Make data privacy notice(s) available to individuals upon first interacting with an organization and subsequently as necessary; Ensures that data privacy notices are clear and easy-to-understand, expressing information about Personal Data (PD) processing in plain language that meets all legal		
	Privacy and protection of PII	https://www.iso.org/standard/75652.html	Functional	intersects with	Data Privacy Notice	PRI-02	obligations: - Defines 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; - Content of the privacy notice is periodically reviewed and updates made as necessary; and - Prior versions of the privacy notice are retained in accordance with data retention requirements.	5	
			Functional	intersects with	Purpose Specification	PRI-02.1	Mechanisms exist to identify and document the purpose(s) for which Personal Data	5	
			Functional	intersects with	Internal Audit Function	CPL-02.1	[PD] is collected, used, maintained and shared in its data privacy notices. 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	
		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	security	https://www.iso.org/standard/75652.html	Functional	intersects with	Independent Assessors	CPL-03.1	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	
			Functional	intersects with	Functional Review Of Cybersecurity & Data	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
				1	Protection Controls	I	1		I



FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF II	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
					Audit A-Miller	CDL C4	Mechanisms exist to thoughtfully plan audits by including input from operational risk	(optional)	
			Functional	intersects with	Audit Activities Cybersecurity & Data Protection Controls	CPL-04	and compliance partners to minimize the impact of audit-related activities on business operations. Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
			Functional	intersects with	Oversight	CPL-02	Tunction that reports to the organization's executive leadership. Mechanisms exist to ensure managers regularly review the processes and documented	5	
5.36	Compliance with policies, rules and standards for 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	procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5	
	standards for information security	nttps://www.iso.org/standard/75652.ntml	Functional	intersects with	Functional Review Of Cybersecurity & Data	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
			Functional	intersects with	Protection Controls Testing, Training & Monitoring	PRI-08	Mechanisms exist to conduct cybersecurity & data privacy testing, training and monitoring activities	5	
			Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
					Program Publishing Cybersecurity &		Mechanisms exist to establish, maintain and disseminate cybersecurity & data		
			Functional	intersects with	Data Protection Documentation	GOV-02	protection policies, standards and procedures. Mechanisms exist to review the cybersecurity & data privacy program, including	5	
			Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mecnanisms 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 procedures	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Operations Security	OPS-01	Mechanisms exist to facilitate the implementation of operational security controls.	10	
			Functional	equal	Standardized Operating Procedures (SOP)	OPS-01.1	Mechanisms exist to identify and document Standardized Operating Procedures (SOP), or similar documentation, to enable the proper execution of day-to-day / assigned	10	
			Functional	intersects with	Service Delivery (Business Process Support)	OPS-03	tasks. Mechanisms exist to define supporting business processes and implement appropriate governance and service management to ensure appropriate planning, delivery and support of the organization's technology capabilities supporting business functions, workforce, and/or customers based on industry-recognized standards to achieve the formal programment of the programm	5	
		The second first arrange for a second second second					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 Mechanisms exist to manage personnel security risk by screening individuals prior to	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 Roles With Special	HRS-04	authorizing access. Mechanisms exist to ensure that individuals accessing a system that stores, transmits or	5	
		,	Functional	intersects with	Protection Measures	HRS-04.1	processes information requiring special protection satisfy organization-defined personnel screening criteria. Mechanisms exist to require all employees and contractors to apply cybersecurity &	5	
			Functional	intersects with	Terms of Employment Rules of Behavior	HRS-05 HRS-05.1	data privacy principles in their daily work. Mechanisms exist to define acceptable and unacceptable rules of behavior for the use	5	
		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Social Media & Social	HRS-05.2	of technologies, including consequences for unacceptable behavior. 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	5	
6.2	Terms and conditions of employment	https://www.iso.org/standard/75652.html			Networking Restrictions Use of Communications		and sharing account information. Mechanisms exist to establish usage restrictions and implementation guidance for		
			Functional	intersects with	Technology	HRS-05.3	communications technologies based on the potential to cause damage to systems, if used maliciously. Mechanisms exist to manage business risks associated with permitting mobile device	5	
			Functional	intersects with	Use of Mobile Devices Cybersecurity & Data	HRS-05.5	access to organizational resources. Mechanisms exist to facilitate the implementation of security workforce development	5	
			Functional	subset of	Privacy-Minded Workforce Cybersecurity & Data	SAT-01 SAT-02	and awareness controls. Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	10	
6.3	Information security awareness, education and training	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Tunctional	intersees with	Privacy Awareness Training	341 02	Mechanisms exist to provide role-based cybersecurity & data privacy-related training:		
			Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Before authorizing access to the system or performing assigned duties; When required by system changes; and Annually thereafter.	5	
6.4	Disciplinary process	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures. Mechanisms exist to conduct employee misconduct investigations when there is	5	
			Functional	intersects with	Workplace Investigations	HRS-07.1	reasonable assurance that a policy has been violated. Mechanisms exist to adjust logical and physical access authorizations to systems and	5	
6.5	Responsibilities after termination or	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Personnel Transfer Personnel Termination	HRS-08	facilities upon personnel reassignment or transfer, in a timely manner. Mechanisms exist to govern the termination of individual employment.	5	
0.3	change of employment	https://www.iso.org/standard/75652.html	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	
					Requirements		protection of organizational information. Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar		
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	Confidentiality Agreements	HRS-06.1	confidentiality agreements that reflect the needs to protect data and operational details, or both employees and third-parties. Mechanisms exist to require contractual requirements for cybersecurity & data privacy	5	
		.,,,,,	Functional	intersects with	Third-Party Contract Requirements	TPM-05	requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
6.7	Remote working	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Remote Access Work From Anywhere	NET-14	Mechanisms exist to define, control and review organization-approved, secure remote access methods. Mechanisms exist to define secure telecommuting practices and govern remote access	5	
		https://www.iso.org/standard/75652.html	Functional	intersects with	(WFA) - Telecommuting Security	NET-14.5	to systems and data for remote workers.	5	
			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	
			Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	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	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: Internal stakeholders; Affected clients & third-parties; and Regulatory authorities.	5	
			Functional	intersects with	Central Review & Analysis	MON-02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	5	
		Ruy 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.	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 Physical & Environmental	N/A	N/A Mechanisms exist to facilitate the operation of physical and environmental protection	N/A	No requirements to map to.
			Functional	subset of	Protections Physical Access	PES-01	controls. Physical access control mechanisms exist to maintain a current list of personnel with	10	
			Functional	intersects with	Authorizations	PES-02	authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible). Physical access control mechanisms exist to enforce physical access authorizations for	5	
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	all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible).	5	
			Functional	intersects with	Controlled Ingress & Egress Points	PES-03.1	Physical access control mechanisms exist to limit and monitor physical access through controlled ingress and egress points.	5	
			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	
			Functional	intersects with	Controlled Ingress & Egress	PES-03.1	Physical access control mechanisms exist to limit and monitor physical access through	5	
			Functional	intersects with	Points Physical Access Logs	PES-03.3	controlled ingress and egress points. Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.	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	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	5	
		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	
			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	
			Functional	intersects with	Physical Security of Offices,	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access	5	
7.3	Securing offices, rooms and facilities	Buy a copy of ISO 27002 for control content:			Rooms & Facilities		controls are designed and implemented for offices, rooms and facilities. Physical security mechanisms exist to allow only authorized personnel access to secure		
	, and recinites	https://www.iso.org/standard/75652.html	Functional	intersects with	Working in Secure Areas Equipment Siting &	PES-04.1	areas. Physical security mechanisms exist to locate system components within the facility to	5	
			Functional	intersects with	Protection	PES-12	minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	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)
			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:	Functional	intersects with	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	5	
		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. Facility security mechanisms exist to monitor physical access to critical information	5	
			Functional	intersects with	Monitoring Physical Access To Information Systems	PES-05.2	systems or sensitive/regulated data, in addition to the physical access monitoring of the facility.	5	
			Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
			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	
			Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls. Mechanisms exist to conduct recurring assessments of risk that includes the likelihood	10	
			Functional	intersects with	Risk Assessment	RSK-04	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 Unattended End-User	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas. Mechanisms exist to implement enhanced protection measures for unattended systems	10	
			Functional	intersects with	Equipment Endpoint Security	AST-06 END-01	mechanisms exist to impremient eminance protection measures for unattended systems to protect against tampering and unauthorized access. Mechanisms exist to facilitate the implementation of endpoint security controls.	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	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:	Functional	equal	Equipment Siting &	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	10	
		https://www.iso.org/standard/75652.html	Functional	subset of	Protection Asset Governance	AST-01	the opportunity for unauthorized access. Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement	10	
			Functional	intersects with	Security of Assets & Media	AST-05	and manage asset management controls. Mechanisms exist to maintain strict control over the internal or external distribution of any kind of sensitive/regulated media.	5	
		Buy a copy of ISO 27002 for control content:	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	https://www.iso.org/standard/75652.html	Functional	intersects with	Tamper Detection	AST-08	Mechanisms exist to periodically inspect systems and system components for Indicators of Compromise (IoC).	5	
			Functional	intersects with	Tamper Protection Work From Anywhere	AST-15	Mechanisms exist to verify logical configuration settings and the physical integrity of critical technology assets throughout their lifecycle. Mechanisms exist to define secure telecommuting practices and govern remote access	5	
			Functional	intersects with	(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	
			Functional	intersects with	Removal of Assets	AST-11	Mechanisms exist to authorize, control and track technology assets entering and exiting organizational facilities.	5	
			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 data protection controls.	5	
			Functional	subset of	Data Protection	DCH-01	Mechanisms exist to control and restrict access to digital and non-digital media to	10	
			Functional	intersects with	Media Access	DCH-03	authorized individuals. Mechanisms exist to:	5	
7.10	Storage media	Buy a copy of ISO 27002 for control content: https://www.to.org/standard/75652.html	Functional	intersects with	Media Storage	DCH-06	 Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and Protect system media until the media are destroyed or sanitized using approved equipment, techniques and procedures. 	5	
			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. Cryptographic mechanisms exist to protect the confidentiality and integrity of	5	
			Functional	intersects with	Encrypting Data In Storage Media	DCH-07.2	information stored on digital media during transport outside of controlled areas.	5	
			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	
			Functional	intersects with	Media Use	DCH-10	Mechanisms exist to restrict the use of types of digital media on systems or system components. Mechanisms exist to restrict the use and distribution of sensitive / regulated data.	5	
			Functional	intersects with	Limitations on Use Removable Media Security	DCH-10.1 DCH-12	Mechanisms exist to restrict removable media in accordance with data handling and	5	
			Functional	intersects with	Supporting Utilities	PES-07	acceptable usage parameters. Facility security mechanisms exist to protect power equipment and power cabling for	5	
			Functional	intersects with	Automatic Voltage Controls	PES-07.1	the system from damage and destruction. Facility security mechanisms exist to utilize automatic voltage controls for critical system components.	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 Shutoff	PES-07.2	Facility security mechanisms exist to shut off power in emergency situations by: • Placing emergency shutoff switches or devices in close proximity to systems or system components to facilitate safe and easy access for personnel; and • Protecting emergency power shutoff capability from unauthorized activation.	5	
			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	5	
			Functional	intersects with	Emergency Lighting	PES-07.4	primary power source. 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	5	
			Functional	intersects with	Supporting Utilities	PES-07	exits and evacuation routes within the facility. Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.	5	
7.12	Cabling security	Buy a copy of ISO 27002 for control content:	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	5	
	S	https://www.iso.org/standard/75652.html	Functional	intersects with	Transmission Medium	PES-12.1	the opportunity for unauthorized access. Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or	5	
			Functional	subset of	Security Maintenance Operations	MNT-01	damage. Mechanisms exist to develop, disseminate, review & update procedures to facilitate the	10	
7.13	Equipment maintenance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Controlled Maintenance	MNT-02	implementation of maintenance controls across the enterprise. Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
			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	
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.
7			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. Mechanisms exist to appropriately protect devices that capture sensitive/regulated	5	
			Functional	intersects with	Kiosks & Point of Interaction (PoI) Devices	AST-07	data via direct physical interaction from tampering and substitution.	5	
			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	
		Buy a copy of ISO 27002 for control content:	Functional	subset of	Endpoint Security Endpoint Protection	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls. Mechanisms exist to protect the confidentiality, integrity, availability and safety of	10	
8.1	User endpoint devices	https://www.iso.org/standard/75652.html	Functional	intersects with	Measures Account Lockout	END-02 IAC-22	mechanisms exist to protect the commentancy, 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 when	5	
			Functional	subset of	Centralized Management	MDM-01	the maximum number of unsuccessful attempts is exceeded. Mechanisms exist to implement and govern Mobile Device Management (MDM)	10	
			Functional	subset of intersects with	Of Mobile Devices Access Control For Mobile	MDM-01 MDM-02	controls. Mechanisms exist to enforce access control requirements for the connection of mobile	5	
			Functional	intersects with	Devices Remote Purging	MDM-05	devices to organizational systems. Mechanisms exist to remotely purge selected information from mobile devices.	5	
			Functional	intersects with	Privileged Account Management (PAM)	IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
		Buy a copy of ISO 27002 for control content:	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	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	management. 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	
			Functional	intersects with	Privileged Accounts	IAC-21.3	unnecessary privileges, as necessary. Mechanisms exist to restrict the assignment of privileged accounts to organization- management approved personnel and/or roles.	5	
				I	1		тольцесться, арргочео регопшегано/ от говех.		



FDE II	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF II	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
			Functional	subset of	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls.	10	
			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	
			Functional	intersects with	Least Functionality	CFG-03	Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	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	Role-Based Access Control (RBAC)	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	
			Functional	intersects with	(RBAC) Least Privilege	IAC-21	sensitive/regulated data access. Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with	5	
					Data Flow Enforcement –		access to processes necessary to accomplish assigned tasks in accordance with organizational business functions. Mechanisms exist to design, implement and review firewall and router configurations to		
		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Access Control Lists (ACLs) Access to Program Source	NET-04	restrict connections between untrusted networks and internal systems. Mechanisms exist to limit privileges to change software resident within software	5	
8.4	Access to source code	https://www.iso.org/standard/75652.html	Functional	equal	Code System Hardening Through	TDA-20	libraries. Mechanisms exist to develop, document and maintain secure baseline configurations	10	
			Functional	intersects with	Baseline Configurations	CFG-02	for technology platforms that are consistent with industry-accepted system hardening standards. Mechanisms exist to facilitate the implementation of endpoint security controls.	5	
8.5	Secure authentication	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of intersects with	Endpoint Security Endpoint Protection	END-01 END-02	Mechanisms exist to protect the confidentiality, integrity, availability and safety of	10 5	
		integral, www.socologistandira, y sost.intili	Functional	intersects with	Measures Trusted Path	END-02	endpoint devices. Mechanisms exist to establish a trusted communications path between the user and the security functions of the operating system.	5	
			Functional	intersects with	Secure Log-On Procedures	SEA-17	Mechanisms exist to utilize a trusted communications path between the user and the security functions of the system.	5	
		Buy a copy of ISO 27002 for control content:	Functional	subset of	Capacity & Performance Management	CAP-01	Mechanisms exist to facilitate the implementation of capacity management controls to ensure optimal system performance to meet expected and anticipated future capacity requirements.	10	
8.6	Capacity management	https://www.iso.org/standard/75652.html	Functional	intersects with	Capacity Planning	CAP-03	Mechanisms exist to conduct capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist	5	
		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Malicious Code Protection (Anti-Malware)	END-04	during contingency operations. Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
8.7	Protection against malware	https://www.iso.org/standard/75652.html	Functional	intersects with	Automatic Antimalware	END-04.1	Mechanisms exist to automatically update antimalware technologies, including signature definitions.	5	
			Functional	intersects with	Signature Updates Periodic Review	CFG-03.1	signature definitions. Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5	
			Functional	intersects with	Cybersecurity & Data Protection Controls	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
					Oversight Functional Review Of		Mechanisms exist to regularly review technology assets for adherence to the		
			Functional	intersects with	Cybersecurity & Data Protection Controls	CPL-03.2	organization's cybersecurity & data protection policies and standards. Mechanisms exist to report system vulnerabilities associated with reported	5	
			Functional	intersects with	Vulnerabilities Related To Incidents	IRO-10.3	cybersecurity & data privacy incidents to organization-defined personnel or roles.	5	
8.8	Management of technical	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Testing, Training & Monitoring	PRI-08	Mechanisms exist to conduct cybersecurity & data privacy testing, training and monitoring activities	5	
	vulnerabilities	https://www.iso.org/standard/75652.html	Functional	subset of	Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
			Functional	intersects with	(VPMP) Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface management activities.	5	
			Functional	intersects with	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
			Functional	intersects with	Vulnerability Ranking	VPM-03	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.	5	
			Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
			Functional	intersects with	Vulnerability Scanning Configuration	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications. Mechanisms exist to maintain a current list of approved technologies (hardware and	5	
			Functional	subset of	Management Database (CMDB)	AST-02.9	software).	10	
			Functional	subset of	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls. Mechanisms exist to implement a segregation of duties for configuration management	10	
		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Assignment of Responsibility	CFG-01.1	that prevents developers from performing production configuration management duties.	5	
8.9	Configuration management	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	
			Functional	intersects with	Reviews & Updates	CFG-02.1	Mechanisms exist to review and update baseline configurations: - At least annually; - When required due to so: or	5	
							When required due to so; or As part of system component installations and upgrades. Mechanisms exist to configure systems to provide only essential capabilities by		
			Functional	intersects with	Least Functionality Secure Disposal,	CFG-03	specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
			Functional	intersects with	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.	5	
			Functional	intersects with	Physical Media Disposal	DCH-08	Mechanisms exist to securely dispose of media when it is no longer required, using formal procedures. Mechanisms exist to sanitize system media with the strength and integrity	5	
			Functional	intersects with	System Media Sanitization	DCH-09	commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.	5	
			Functional	intersects with	System Media Sanitization Documentation	DCH-09.1	Mechanisms exist to supervise, track, document and verify system media 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	Mechanisms exist to facilitate the sanitization of Personal Data (PD).	5	
			Functional	intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations. Mechanisms exist to securely dispose of, destroy or erase information.	5	
			Functional	intersects with	information Disposal	DCH-21	Mechanisms exist to:	5	
					Personal Data Retention &		 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; Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of 	_	
			Functional	intersects with	Disposal	PRI-05	storage; and - Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
			Functional .	Integration (A)	Masking Displayed Data	DCH-03.2	destruction of PD (including originals, copies and archived records). Mechanisms exist to apply data masking to sensitive/regulated information that is	5	
		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Removal, Masking,		displayed or printed. Mechanisms exist to remove, mask, encrypt, hash or replace direct identifiers in a dataset.		
8.11	Data masking	https://www.iso.org/standard/75652.html	Functional	intersects with	Encryption, Hashing or Replacement of Direct Identifiers	DCH-23.4		5	
			Functional	intersects with	Data Masking Configuration	PRI-05.3	Mechanisms exist to mask sensitive/regulated data through data anonymization, pseudonymization, redaction or de-identification. Mechanisms exist to facilitate the implementation of configuration management	5	
			Functional	intersects with	Management Program System Hardening Through	CFG-01	controls. Mechanisms exist to develop, document and maintain secure baseline configurations	5	
			Functional	intersects with	Baseline Configurations Configure Systems,	CFG-02	for technology platforms that are consistent with industry-accepted system hardening standards. Mechanisms exist to configure systems utilized in high-risk areas with more restrictive	5	
			Functional	intersects with	Components or Services for High-Risk Areas	CFG-02.5	baseline configurations. Mechanisms exist to configure systems to provide only essential capabilities by	5	
			Functional	intersects with	Least Functionality	CFG-03	specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
			Functional	intersects with	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection 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	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	
			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).	5	
			Functional	intersects with	Internal Information Prevent Unauthorized	NET-03.3 NET-03.5	Mechanisms exist to prevent the public disclosure of internal network information. Automated mechanisms exist to prevent the unauthorized exfiltration of	5	
I .			runcuonal	intersects with	Exfiltration	INC1-03.5	sensitive/regulated data across managed interfaces.	5	



FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF II	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
			Functional	intersects with	Information Leakage Due To Electromagnetic Signals	PES-13	Facility security mechanisms exist to protect the system from information leakage due to electromagnetic signals emanations.	(optional) 5	
					Emanations Secure Engineering		Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity		
			Functional	intersects with	Principles Centralized Management	SEA-01	& data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to centrally-manage the organization-wide management and	5	
			Functional	intersects with	of Cybersecurity & Data Privacy Controls	SEA-01.1	implementation of cybersecurity & data privacy controls and related processes. Mechanisms exist to create recurring backups of data, software and/or system images,	5	
			Functional	intersects with	Data Backups	BCD-11	as well as verify the integrity of these backups, to ensure the availability of the data to satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
8.13	Information backup	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Testing for Reliability & Integrity	BCD-11.1	Mechanisms exist to routinely test backups that verify the reliability of the backup process, as well as the integrity and availability of the data.	5	
		https://www.iso.org/standard/75052.html	Functional	intersects with	Separate Storage for Critical Information	BCD-11.2	Mechanisms exist to store backup copies of critical software and other security-related information in a separate facility or in a fire-rated container that is not collocated with the system being backed up.	5	
			Functional	intersects with	Cryptographic Protection	BCD-11.4	Cryptographic mechanisms exist to prevent the unauthorized disclosure and/or modification of backup information.	5	
			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 backup information.	5	
8.14	Redundancy of information processing facilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Alternate Processing Site	BCD-09	Mechanisms exist to establish an alternate processing site that provides security measures equivalent to that of the primary site. Mechanisms exist to maintain a failover system, which is not collocated with the	5	
			Functional	intersects with	Redundant Secondary System	BCD-11.7	primary system, application and/or service, which can be activated with little-to-no loss of information or disruption to operations.	5	
			Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls. Mechanisms exist to generate, monitor, correlate and respond to alerts from physical,	10	
			Functional	intersects with	System Generated Alerts	MON-01.4	cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness. Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar	5	
			Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	automated tool, to support the centralized collection of security-related event logs.	5	
			Functional	intersects with	Correlate Monitoring Information	MON-02.1	Automated mechanisms exist to correlate both technical and non-technical 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 & Analysis	MON-02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	5	
		https://www.iso.org/standard/75652.html					Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum: - Establish what type of event occurred;		
			Functional	intersects with	Content of Event Logs	MON-03	When (date and time) the event occurred; Where the event occurred;	5	
							The source of the event; The outcome (success or failure) of the event; and The identity of any user/subject associated with the event.		
			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. Mechanisms exist to provide an event log report generation capability to aid in	5	
			Functional	intersects with	Monitoring Reporting Protection of Event Logs	MON-06 MON-08	detecting and assessing anomalous activities. Mechanisms exist to protect event logs and audit tools from unauthorized access,	5	
			Functional	subset of	Continuous Monitoring	MON-01	modification and deletion. Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
			Functional	intersects with	Intrusion Detection & Prevention Systems (IDS & IPS)	MON-01.1	Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points.	5	
8.16	Monitoring activities	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Automated Tools for Real- Time Analysis	MON-01.2	Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar automated tool, to support near real-time analysis and incident escalation.	5	
		https://www.iso.org/standard/75652.html	Functional	intersects with	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	5	
			Functional	intersects with	Reviews & Updates	MON-01.8	Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures.	5	
0.47	Clash washandasha	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Central Review & Analysis	MON-02.2	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	5	
8.17 8.18	Clock synchronization Use of privileged utility programs	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 equal	Clock Synchronization Use of Privileged Utility Programs	SEA-20 IAC-20.3	system clocks. Mechanisms exist to restrict and tightly control utility programs that are capable of overriding system and application controls.	10	
		https://www.iso.org/standard/73032.html	Functional	subset of	Change Management Program	CHG-01	Mechanisms exist to facilitate the implementation of a change management program.	10	
			Functional	intersects with	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes. Mechanisms exist to appropriately test and document proposed changes in a non-	5	
8.19	Installation of software on operational systems	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Test, Validate & Document Changes	CHG-02.2	production environment before changes are implemented in a production environment. Automated mechanisms exist to prohibit software installations without explicitly	5	
			Functional	intersects with	Prohibit Installation Without Privileged Status	END-03	assigned privileged status.	5	
			Functional	intersects with	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems. Mechanisms exist to maintain network architecture diagrams that:	5	
			Functional	intersects with	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	Contain sufficient detail to assess the security of the network's architecture; Reflect the current architecture of the network environment; and Document all sensitive/regulated data flows.	5	
			Functional	subset of	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	10	
			Functional	intersects with	Layered Network Defenses	NET-02	Mechanisms exist to implement security functions as a layered structure that minimizes interactions between layers of the design and avoids any dependence by lower layers on the functionality or correctness of higher layers.	5	
8.20	Networks security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.	5	
		https://www.iso.org/stanuard//3002.fitffil	Functional	intersects with	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal systems.	5	
			Functional	intersects with	Deny Traffic by Default & Allow Traffic by Exception	NET-04.1	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 exception).	5	
			Functional	intersects with	Network Segmentation (macrosegementation)	NET-06	Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network	5	
			Functional	intersects with	DMZ Networks	NET-08.1	resources. Mechanisms exist to monitor De-Militarized Zone (DMZ) network segments to separate untrusted networks from trusted networks.	5	
			Functional	subset of	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	10	
			Functional	intersects with	Boundary Protection Network Intrusion	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network. Mechanisms exist to employ Network Intrusion Detection / Prevention Systems	5	
		Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Detection / Prevention Systems (NIDS / NIPS)	NET-08	(NIDS/NIPS) to detect and/or prevent intrusions into the network. Mechanisms exist to control authorized wireless usage and monitor for unauthorized	5	
8.21	Security of network services		Functional	intersects with	Wireless Networking Third-Party Contract	NET-15	wireless access. Mechanisms exist to require contractual requirements for cybersecurity & data privacy	5	
8.21	Security of network services	nttps://www.iso.org/standard//5652.ntml		team of the	,	TPM-05	requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
8.21	Security of network services	nttps://www.iso.org/standard//5652.ntml	Functional	intersects with	Requirements		Mechanisms exist to monitor, regularly review and audit External Service Providers		
8.21	Security of network services	nttps://www.so.org/standard//bob_f.ttml	Functional Functional	intersects with	Review of Third-Party Services	TPM-08	(ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
8.21	Security of network services	nttps://www.so.org/standard/2552.ftmi			Review of Third-Party	TPM-08 NET-06	(ESP4) for compliance with established contractual requirements for cybersecurity & data privacy controls. Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network resources.	5	
8.21	Security of network services Segregation of networks	https://www.so.org/standard/75652.html Buy a copy of 150 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Review of Third-Party Services		[ESP4] for compliance with established contractual requirements for cybersecurity & data privacy controls. Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network resources. Mechanisms exist to implement security management subnets to isolate security tools and support components from other internal system components by implementing		
		Buy a copy of ISO 27002 for control content:	Functional Functional	intersects with	Review of Third-Party Services Network Segmentation (macrosegementation) Security Management Subnets Use of Demilitarized Zones	NET-06	(ESP3) for compliance with established contractual requirements for cybersecurity & data privacy controls. Mechanisms exist to ensure network architecture utilizes network segmentation to solate systems, applications and services that protections from other network 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 components of the system. Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to	5	
8.22	Segregation of networks	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/775652.html Buy a copy of ISO 27002 for control content:	Functional Functional Functional	intersects with intersects with intersects with intersects with	Review of Third-Party Services Network Segmentation (macrosegementation) Security Management Subnets Use of Demilitarized Zones (DMZ)	NET-06.1 WEB-02	(ESP) for compliance with established contractual requirements for cybersecurity & data privacy contrains exist to ensure network architecture utilizes network segmentation to oliotate systems, applications and services that protections from other network resources. Mechanisms exist to implement security management subnets to isolate security tools and support components from other internal system components by implementing expanse tuberbowns with managed interfaces to other components of the system. Mechanisms exist to utilize a benillatined Zone (DMZ) to restrict imbounds traffic to authorized devices on certain services, protocols and ports. Mechanisms exist to force internet-bound network staffic through a proxy device (ie.g., Poolicy Enforcement Pool (PEPP) for Util content filtering and DMS filtering to limit.	5	
		Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional Functional	intersects with intersects with intersects with	Review of Third-Party Services Network Segmentation (macrosegementation) Security Management Subnets Use of Demilitarized Zones (DMZ) DNS & Content Filtering	NET-06 NET-06.1	(ESP) for compliance with established contractual requirements for cybersecurity & data privacy contrains exist to ensure network architecture utilizes network segmentation to solicate systems, applications and services that protections from other network resources. Mechanisms exist to implement security management subnets to isolate security tools and support components from other internal system components by implementing separate butherworks with managed interfaces to other components of the system. Mechanisms exist to utilize a benillarised zone (DMI) to restrict imbound traffic to authorized devices on certain services, protocols and posts. Mechanisms exist to force Internet-bound network raffic through a proxy device (e.g., Policy Enforcement Porti (PEPI) for Util content filtering and DSI filtering to limit a user's ability to connect to dangerous or prohibited internet sites.	5	
8.22	Segregation of networks	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/775652.html Buy a copy of ISO 27002 for control content:	Functional Functional Functional	intersects with intersects with intersects with intersects with	Review of Third-Party Services Network Segmentation (macrosegementation) Security Management Subnets Use of Demilitarized Zones (DMZ)	NET-06.1 WEB-02	(ESP) for compliance with established contractual requirements for cybersecurity & data privacy contrains exist to ensure network architecture utilizes network segmentation to oliotate systems, applications and services that protections from other network resources. Mechanisms exist to implement security management subnets to isolate security tools and support components from other internal system components by implementing expanse tuberbowns with managed interfaces to other components of the system. Mechanisms exist to utilize a benillatined Zone (DMZ) to restrict imbounds traffic to authorized devices on certain services, protocols and ports. Mechanisms exist to force internet-bound network staffic through a proxy device (ie.g., Poolicy Enforcement Pool (PEPP) for Util content filtering and DMS filtering to limit.	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)
			Functional	intersects with	Transmission Integrity	CRY-04	Cryptographic mechanisms exist to protect the integrity 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	Functional	intersects with	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
			Functional	intersects with	Cryptographic Key Management	CRY-09	Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.	5	
			Functional	intersects with	Cryptographic Key Loss or Change	CRY-09.3	Mechanisms exist to ensure the availability of information in the event of the loss of cryptographic keys by individual users.	5	
			Functional	intersects with	Control & Distribution of Cryptographic Keys	CRY-09.4	Mechanisms exist to facilitate the secure distribution of symmetric and asymmetric cryptographic keys using industry recognized key management technology and processes.	5	
			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	
			Functional	intersects with	Development & Test Environment Configurations	CFG-02.4	Mechanisms exist to manage baseline configurations for development and test environments separately from operational baseline configurations to minimize the risk of unintentional changes.	5	
			Functional	intersects with	Threat Analysis & Flaw Remediation During Development	IAO-04	Mechanisms exist to require system developers and integrators to create and execute a Security Test and Evaluation (ST&E) plan to identify and remediate flaws during development.	5	
			Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
			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 business needs.	10	
			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	5	
			Functional	intersects with	Secure Coding	TDA-06	techniques to minimize flawed and/or malformed software. Mechanisms exist to develop applications based on secure coding principles.	5	
			Functional	intersects with	Secure Development	TDA-07	Mechanisms exist to maintain a segmented development network to ensure a secure	5	
			Functional	intersects with	Environments Separation of Development, Testing and	TDA-08	development environment. Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational	5	
					Operational Environments		environment and to ensure no impact to production systems. Mechanisms exist to require system developers/integrators consult with cybersecurity		
			Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout	TDA-09	& data privacy personnel to: - Create and implement a Security Test and Evaluation (ST&E) plan; - Implement a verifiable flaw remediation process to correct weaknesses and	5	
					Development		deficiencies identified during the security testing and evaluation process; and Document the results of the security testing/evaluation and flaw remediation processes.		
			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	
			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	
			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	
			Functional	intersects with	Transmission	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being	5	
			Functional	intersects with	Confidentiality Transmission Integrity	CRY-04	transmitted. Cryptographic mechanisms exist to protect the integrity of data being transmitted.	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	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	
			Functional	subset of	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	10	
			Functional	intersects with	Alignment With Enterprise	SEA-02	modification of systems and services. Mechanisms exist to develop an enterprise architecture, aligned with industry- recognized leading practices, with consideration for cybersecurity & data privacy	5	
			Functional	intersects with	Architecture Secure Coding	TDA-06	principles that addresses risk to organizational operations, assets, individuals, other organizations. Mechanisms exist to develop applications based on secure coding principles.	5	
			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	
			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	
							Mechanisms exist to require the developers of systems, system components or services to produce a design specification and security architecture that: • Is consistent with and supportive of the organization's security architecture which is		
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 &	TDA-05	Is consistent with and is an integrated part of the organization's enterprise architecture; Accurately and completely describes the required security functionality and the	5	
			Functional	intersects with	Design	TDA-05	*Accurately and complexely describes the required security functionality and the allocation of security controls among physical and logical components; and *Expresses how individual security functions, mechanisms and services work together to provide required security capabilities and a unified approach to protection.	,	
							to provide required security capabilities and a unified approach to protection. Mechanisms exist to develop applications based on secure coding principles.		
		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles. Mechanisms exist to develop applications based on secure coding principles.	5	
8.28	Secure coding	https://www.iso.org/standard/75652.html	Functional	equal	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles. Mechanisms exist to formally assess the cybersecurity & data privacy controls in	10	
			Functional	intersects with	Assessments	IAO-02	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	
							expected requirements. Mechanisms exist to conduct specialized assessments for: - Statutory, regulatory and contractual compliance obligations; - Monitoring capabilities;		
			Functional	intersects with	Specialized Assessments	IAO-02.2	Mobile devices; Databases; Application security;	5	
			. ancedia		- parameter ravessments	02.2	*Application security; *Embedded technologies (e.g., IoT, OT, etc.); *Vulnerability management; *Malicious code;		
8.29	Security testing in development and	Buy a copy of ISO 27002 for control content:			Minimum Viable Product		Mailcious code; Insider threats and Performance/load testing. Mechanisms exist to ensure risk-based technical and functional specifications are		
0.23	acceptance	https://www.iso.org/standard/75652.html	Functional	intersects with	(MVP) Security Requirements	TDA-02	Mechanisms exist to ensure risk-based technical and functional specifications are established to define a Minimum Viable Product (MVP). Mechanisms exist to require software developers to ensure that their software	5	
			Functional	intersects with	Development Methods, Techniques & Processes	TDA-02.3	wechanisms easit 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	
			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).	5	
					Cybersecurity & Data		Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to: • Create and implement a Security Test and Evaluation (ST&E) plan;		
			Functional	intersects with	Privacy Testing Throughout Development	TDA-09	Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and	5	
							Document the results of the security testing/evaluation and flaw remediation processes. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM)		
			Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	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	
			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	
			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 business needs.	10	
			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	
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FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF II	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
			Functional	intersects with	Developer Architecture & Design	TDA-05	Machanism exist to require the developers of systems, system components or services to produce a design specification and security architecture that? *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; *Accurately and completely describes the required security functionality and the allocation of security controls among physical and logical components; and *Expresses how individual security functions, mechanisms and services work together to provide required security capabilities and a unfilled approach to protection.	(optional)	
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	
			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: - recreate and implement a Security Test and Evaluation (ST&E) plan; - implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and - Document the results of the security testing/evaluation and flaw remediation processes.	5	
			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	
			Functional	intersects with	Access to Program Source Code	TDA-20	Mechanisms exist to limit privileges to change software resident within software libraries.	5	
			Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
			Functional	intersects with	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5	
			Functional	intersects with	Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the organization's systems and data.	5	
			Functional	intersects with	Third-Party Contract Requirements	TPM-05	organization's systems and data. 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	
			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	
			Functional	intersects with	Secure Development Environments	TDA-07	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 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	
			Functional	subset of	Change Management	CHG-01	Mechanisms exist to facilitate the implementation of a change management program.	10	
			Functional	intersects with	Configuration Change	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
8.32	Change management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Test, Validate & Document Changes	CHG-02.2	Mechanisms exist to appropriately test and document proposed changes in a non- production environment before changes are implemented in a production environment.	5	
		nttps://www.iso.org/standard/75652.ntml	Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
			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	
8.33	Test information	Buy a copy of ISO 27002 for control content:	Functional	intersects with	De-Identification (Anonymization)	DCH-23	Mechanisms exist to anonymize data by removing Personal Data (PD) from datasets.	5	
-		https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Live Data	TDA-10	Mechanisms exist to approve, document and control the use of live data in development and test environments.	5	
			Functional	subset of	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
			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 systems during audit testing	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	
			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	
			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	

