# **Set Theory Relationship Mapping (STRM)**



Reference Document: Secure Controls Framework (SCF) version 2024.1

Focal Document: ISO 27002:2022

STRM URL: https://content.securecontrolsframework.com/strm/scf-2024-1-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:

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.

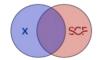
## Relationship Type #5:

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)



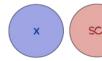
**EQUAL** 

Relative Relationship Strength (control versus control)



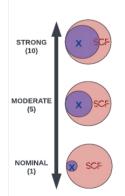
SUPERSET OF

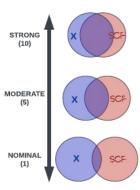
Relative Relationship Strength (control versus control)

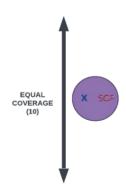


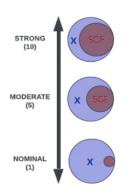
### NO RELATIONSHIP

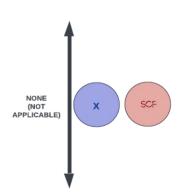
Relative Relationship Strength (control versus control)













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)
1.0	Scope	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.
2.0	Normative references	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.
3.0	Terms, definitions and abbreviated terms	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Standardized Terminology	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments.	5	
3.1	Terms and definitions	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Standardized Terminology	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments.	5	
3.2	Abbreviated terms	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Standardized Terminology	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments.	5	
4.0	Structure of this document	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.1	Clauses	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.2	Themes and attributes	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
4.3	Control layout	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
5.0	Organizational controls	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
		The state of the s	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.  Mechanisms exist to:  *Ensure that the public has access to information about organizational data privacy activities and on communicate with its Chief Privacy Officer (CPO) or similar role;	5	
5.1	Policies for information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Dissemination of Data Privacy Program Information	PRI-01.3	<ul> <li>Ensure that organizational data privacy practices are publicly available through organizational websites or document repositories;</li> <li>*Utilize publicly facing email addresses and/or phone lines to enable the public to provide feedback and/or direct questions to data privacy office(s) regarding data privacy practices; and</li> <li>*Inform data subjects when changes are made to the privacy notice and the nature of such changes.</li> </ul>	5	
			Functional	subset of	Data Privacy Program	PRI-01	Mechanisms exist to facilitate the implementation and operation of data privacy controls.	10	
			Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
			Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
			Functional	intersects with	Roles & Responsibilities  Roles With Special		Mechanisms exist to define cybersecurity responsibilities for all personnel.  Mechanisms exist to ensure that individuals accessing a system that stores, transmits or	5	
5.2	Information security roles and	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Protection Measures Assigned Cybersecurity &	HRS-04.1	processes information requiring special protection satisfy organization-defined personnel screening criteria.  Mechanisms exist to assign one or more qualified individuals with the mission and	5	
	responsibilities		Functional	intersects with	Data Protection Responsibilities	GOV-04	resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	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	
		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 components within a production/operational environment. Mechanisms exist to require all employees and contractors to apply cybersecurity & data	5	
			Functional	intersects with	Terms of Employment	HRS-05	privacy principles in their daily work.  Mechanisms exist to establish usage restrictions and implementation guidance for	5	
			Functional	intersects with	Use of Communications Technology	HRS-05.3	communications technologies based on the potential to cause damage to systems, if used maliciously.	5	
			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 of information to which they have access on the system.  Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of	5	
			Functional	intersects with	Rules of Behavior  Social Media & Social	HRS-05.1	technologies, including consequences for unacceptable behavior.  Mechanisms exist to define rules of behavior that contain explicit restrictions on the use	5	
			Functional	intersects with	Networking Restrictions	HRS-05.2	of social media and networking sites, posting information on commercial websites and sharing account information.	5	
5.4	Management responsibilities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training:  • Before authorizing access to the system or performing assigned duties;  • When required by system changes; and  • Annually thereafter.	5	
			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 document	5	
					Management Human Resources Security		all exceptions to this requirement.		
			Functional	subset of	Management Cybersecurity & Data	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.  Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-related.	10	
			Functional	subset of	Privacy Portfolio Management	PRM-01	resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives.	10	
			Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection	10	
5.5	Contact with	Buy a copy of ISO 27002 for control content:	Functional	equal	Program  Contacts With Authorities	GOV-06	governance controls.  Mechanisms exist to identify and document appropriate contacts with relevant law	10	
5.6	authorities  Contact with special interest groups	https://www.iso.org/standard/75652.html  Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Contacts With Groups & Associations	GOV-07	enforcement and regulatory bodies.  Mechanisms exist to establish contact with selected groups and associations within the cybersecurity & data privacy communities to:  *Facilitate onegoing cybersecurity & data privacy education and training for organizational personnel;  *Maintain currency with recommended cybersecurity & data privacy practices, techniques and technologies; and  *Share current cybersecurity and/or data privacy-related information including threats,	10	
			Functional	intersects with	Monitoring For Information Disclosure	MON-11	vulnerabilities and incidents.  Mechanisms exist to monitor for evidence of unauthorized exfiltration or disclosure of non-public information.	5	
			Functional	subset of	Threat Intelligence Program	THR-01	Mechanisms exist to implement a threat intelligence program that includes a cross- organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat	10	
5.7	Threat intelligence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	hunting, response and recovery activities.	5	
			Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential	5	
			Functional	intersects with	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 implementation of preventative and compensating controls.	5	
			Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	or preventative and compensating controls.  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 organizations.	5	
			Functional	intersects with	Cybersecurity & Data Privacy In Project Management	PRM-04	Mechanisms exist to assess cybersecurity & data privacy controls in system project development to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting the requirements.	5	
			Functional	intersects with	Risk Identification Secure Development Life		Mechanisms exist to identify and document risks, both internal and external.  Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle	5	
			Functional	intersects with	Cycle (SDLC) Management	PRM-07	(SDLC) are controlled through formal change control procedures.	5	



# Note	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)
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5.8			Functional	intersects with	Risk Framing	RSK-01.1	Assumptions affecting risk assessments, risk response and risk monitoring;     Constraints affecting risk assessments, risk response and risk monitoring;     The organizational risk tolerance; and	5	
1862		project management	nicps.//www.iso.org/standard/75052.html	Functional	intersects with	Risk Remediation	RSK-06		5	
지수는 10년				Functional	intersects with		RSK-04	and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.		
18				Functional	subset of	Privacy Portfolio	PRM-01	resource planning controls that define a viable plan for achieving cybersecurity & data		
Part				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	
Part				Functional	intersects with	Risk Response	RSK-06.1		5	
Market				Functional	intersects with	Asset Inventories	AST-02	Mechanisms exist to perform inventories of technology assets that:  *Accurately reflects the current systems, applications and services in use;  *Identifies authorized software products, including business justification details;  *is at the level of granularity deemed necessary for tracking and reporting;  *Includes organization-defined information deemed necessary to achieve effective property accumability; and	5	
Part				Functional	intersects with	Privacy Requirements	PRM-05	criticality analysis for critical systems, system components or services at pre-defined	5	
14		Inventory of		Functional	intersects with		AST-03		5	
Part	5.9	information and other		Functional	intersects with		AST-03.1	Mechanisms exist to include capturing the name, position and/or role of individuals responsible/accountable for administering assets as part of the technology asset	5	
Part				Functional	intersects with		AST-04	Mechanisms exist to maintain network architecture diagrams that:	5	
Part					subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.		
Part								more than one critical business function.		
1.00								sensitive/regulated data is stored, transmitted or processed.  Mechanisms exist to ensure data and assets are categorized in accordance with applicable		
14   1								statutory, regulatory and contractual requirements.	_	
Part				Functional	intersects with		AST-01.2	applications and services to support the ongoing secure management of those assets.	5	
Part						Custodians		media.		
American content of the property of the prop						5		agreements prior to being granted access.		
1-1-		Accontable *						Mechanisms exist to mark media in accordance with data protection requirements so that		
Part	5.10	information and other		FtiI	:	Dulas of Daharias	LIDE OF 1	requirements.	-	
Notice   Processing   Process		associated assets						Mechanisms exist to establish usage restrictions and implementation guidance for		
1.5.1   Makum in a land   No. 100 pp of 50 DNO 0 control control   No. 100 p				Functional	intersects with		HRS-05.3	maliciously.	5	
Mature of June 2   Mature of J				Functional	intersects with		HRS-05.2	of social media and networking sites, posting information on commercial websites and	5	
1-1-1-    1-1-1-    1-1-1-    1-1-1-    1-1-1-    1-1-1-    1-1-	5.11	Return of assets		Functional	equal	Return of Assets	AST-10		10	
1.31   Marked for information   10 miles	5.12		Buy a copy of ISO 27002 for control content:							
1.14 Information transfer  1.14 Information transfer  1.15 Information transfer  1.15 Information transfer  1.16 Information transfer  1.16 Information transfer  1.16 Information transfer  1.16 Information transfer  1.17 Information transfer  1.18 Information tran				Functional	intersects with		DCH-02	statutory, regulatory and contractual requirements.  Mechanisms exist to mark media in accordance with data protection requirements so that		
Fructional storacts with DNS Economic Planting Services and Provided A Environmental Production of Provided A Environmental Provided A Environmental Production Services and Production Services and Provided A Environmental Production Services and Provided A Environmental Production Services and Environmental Services and Environmental Production Services and Environmental Production Services and Environmental Production Services and Environmental Production Services and Environmental Services and Environmental Production Services and Environmental Services and Environmental Production Services and Environmental Services and Env	5.13	Labelling of information						requirements.		
Functional interacts with Post-Control Teleman Post-Control Teleman and Michael Enterina design of Entering to Illinois Interaction (Control Control C				runctional	intersects with	Electronic iwessaging	NEI-13		,	
Functional intersects with Functional intersects				Functional	intersects with		NET-18	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	
Functional   Fun				Functional	intersects with		PES-01	controls.	5	
Functional intersects with Also Training Mechanisms exist to professor and recoverable pheator.  Functional intersects with Experiments of the Confidentiality Agreements (Michael Intersects with Experiments). The Confidentiality Agreements (Michael Intersects with Intersect				Functional	intersects with	Media Transportation	DCH-07	outside of controlled areas using appropriate security measures.	5	
Functional intersects with Allow Traffic by Default & Allow Traffic by Default & Allow Traffic by Exception (e.g., deny all, permit by exception).  Functional intersects with Allow Traffic by Exception (e.g., deny all, permit by exception).  Functional intersects with Allow Traffic by Exception (e.g., deny all, permit by exception).  Functional intersects with Access Agreements of the Access Agreements of the Allow Traffic by Exception (e.g., deny all, permit by exception).  Functional intersects with Access Agreements of the Access Agreements and Access Agreements and Access Agreements of the Access Agreements and Access Agreements Agreements and Access Agreements Agreements and Access Agreements Agreements Agreements Agreements Agreements Agreements Agreem				Functional				technologies, including consequences for unacceptable behavior.		
Information transfer Information transfer Information transfer Intersects with A Jow Traffic by Exception A Intersects with								external parties.  Mechanisms exist to configure firewall and router configurations to deny network traffic	-	
Functional intersects with Participated intersects with Aces Control Lists (ACLs)  Functional subset of Network Specific Control Lists (ACLs)  Functional intersects with Aces Control Lists (ACLs)  Functional intersects with Physical Access Control Lists (ACLs)  Functiona	5.14	Information transfer				Allow Traffic by Exception		by default and allow network traffic by exception (e.g., deny all, permit by exception).		
Functional subset of (NSC) Network Security Controls (NSC) Mechanisms exist to develop, govern & update procedures to facilitate the indemendation of Network Security Controls (NSC).  Functional Intersects with Confidentiality Agreements (NSC) Amelanisms exist to develop, govern & update procedures to facilitate the indemendation of Network Security Controls (NSC).  Mechanisms exist to develop, govern & update procedures to facilitate the indemendation of Network Security Controls (NSC).  Mechanisms exist to develop, govern & update procedures to facilitate the indemendation of Network Security Controls (NSC).  Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Mechanisms exist to require Non-Disclosure Agreements (NDA) or similar confidentiality of Non-Disclosure Agreements (NDA) or similar confidentiality of Non-Disclosure Agreements (NDA) or similar confidentiality or protected to protect the confidentiality of Non-Disclosure Agreements (NDA) or similar confidentiality or protected the needs to protect th						Data Flow Enforcement –		agreements prior to being granted access.  Mechanisms exist to design, implement and review firewall and router configurations to		
Functional intersects with Confidentiality agreements (NCA) intersects with Confidentiality Agreements (NCA) intersects with Confidentiality Agreements (NCA) or similar confidentiality agreements that reflect the needs to protect data and operational details, or both set intersects with Confidentiality Confidentiality agreements that reflect the needs to protect data and operational details, or both set intersects with Confidentiality Con				Functional	subset of	Network Security Controls	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the	10	
Functional intersects with Confidentiality Agreements HS-06.1 agreements that reflect the needs to protect data and operational details, or both 5 smoloves and third-parties.  Functional intersects with Confidentiality Con								Mechanisms exist to identify custodians throughout the transport of digital or non-digital	5	
Functional intersects with Functional intersects				Functional	intersects with	Confidentiality Agreements	HRS-06.1	Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, or both	5	
Functional   Intersects with   Terms of Employment   H85-05   Mechanisms exist to require all employees and contractors to apply cybersecurity & data   5				Functional	intersects with		CRY-03		5	
Functional intersects with Information Sharing DCH-14 decisions to utilize a process to assist users in making information sharing decisions to nesure data is appropriately protected.  Functional subset of Physical & Environmental Protections PES-01 Mechanisms exist to facilitate the operation of physical and environmental protection controls.  Functional intersects with Physical Access Control PS-03 Physical access control mechanisms exist to reflorce physical access authorizations for all physical access spoints (including designated entry/exit points) to facilities (excluding those areas within the facility officially designated as publicly accessible).  Functional intersects with Least Privilege Intersects with Physical Security of Offices, Rooms & Facilities (excluding those areas within the facility systems, equipment and respective operating environments that require limited physical access controls are designed and implemented or offices, rooms and facilities.  Functional intersects with Working in Security or Offices, Rooms & Facilities (excluding that the content of the cont				Functional	intersects with		HRS-05		5	
Functional intersects with Physical Access Control  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 towards as publicly accessible).  Functional intersects with Least Privilege Least Privilege Least Privilege Least Privilege and Expressible as publicly accessible.  Functional intersects with Physical Security of Offices, Rooms & Facilities Physical Security of Offices, Rooms & Facilities Physical Security of Offices, PES-04  Functional intersects with Working in Security of Offices, PS-04  Functional intersects with Physical Security of Offices, Rooms & Facilities PS-04  Functional intersects with Physical Security of Offices, PS-04  Functional intersects with Physical Security of Offices, Rooms & Facilities PS-04  Functional intersects with Physical Security of Offices, PS-04  Functional Intersects with Physical Security of Physical Security Intersects with Physical Security Physical Security Physical Security Physical Security Physical Security Physical				Functional	intersects with	Information Sharing	DCH-14	Mechanisms exist to utilize a process to assist users in making information sharing	5	
Functional intersects with Physical Access Control  Physical Security of Offices, Rooms & Facilities  Physical Security of Machinery of Physical Security of Machine				Functional	subset of		PES-01	controls.	10	
Functional intersects with Least Privilege IAC-21 to processes necessary to accomplish assigned tasks in accordance with organizational 5 business functions  Functional intersects with Physical Security of Offices, Rooms & Facilities  Functional intersects with Working in Security and Security of Offices, PS-04  Functional intersects with Working in Security and Security of Offices, PS-04  Functional intersects with Physical Security of Offices, Rooms & Facilities  Functional intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical Security of Offices, Rooms & Facilities  Functional Intersects with Physical				Functional	intersects with	Physical Access Control	PES-03	physical access points (including designated entry/exit points) to facilities (excluding	5	
Functional intersects with programmer of the pro				Functional	intersects with	Least Privilege	IAC-21	to processes necessary to accomplish assigned tasks in accordance with organizational	5	
				Functional	intersects with		PES-04	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		5	



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10	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)
Mathematical   Math	E 15	Accord control		Functional	intersects with		IAC-17	accounts to validate the need for such privileges and reassign or remove unnecessary	(optional) 5	
# 18	5.15	Access control	https://www.iso.org/standard/75652.html	Functional	intersects with	Role-Based Access Control	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and	5	
18				Functional	intersects with	Privileged Account	IAC-16		5	
1				Functional	intersects with		IAC-15		5	
1				Functional	intersects with		IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	5	
1				Functional	intersects with		PES-02.1	Physical access control mechanisms exist to authorize physical access to facilities based	5	
1 전 1 전 1 전 2 전 2 전 2 전 2 전 2 전 2 전 2 전				Functional	intersects with	Physical Access		Physical access control mechanisms exist to maintain a current list of personnel with	5	
				Functional	subset of	Identity & Access	IAC-01	officially designated as publicly accessible).  Mechanisms exist to facilitate the implementation of identification and access	10	
1				Functional	intersects with	Restrictions on Shared	IAC-15.5	Mechanisms exist to authorize the use of shared/group accounts only under certain	5	
# 1				Functional	intersects with	Cross-Organization	IAC-09.4	Mechanisms exist to coordinate username identifiers with external organizations for cross- organization management of identifiers.	5	
Part				Functional	intersects with		IAC-04	(AAA) devices before establishing a connection using bidirectional authentication that is	5	
# 1				Functional	intersects with			Mechanisms exist to govern naming standards for usernames and systems.	5	
Part	5.16	Identity management				Identification &				
Part			https://www.iso.org/standard/75052.html			Organizational Users				
Part						Provisioning Identification &		governs the assignment of access rights.		
Part				Functional		Party Systems & Services				
1.6   1.6								system, service, application, guest and temporary accounts.		
Part										
Authorition   Processor   10   2   2   2   2   2   2   2   2   2						Password-Based		Mechanisms exist to enforce complexity, length and lifespan considerations to ensure		
1-1-1		Authentication	Buy a copy of ISO 27002 for control content:	Functional	intersects with	User Responsibilities for	IAC-18	Mechanisms exist to compel users to follow accepted practices in the use of	5	
Automotion   Security   Securit	5.17			Functional	intersects with	Protection of	IAC-10.5	tokens, smart cards, certificates, etc.).  Mechanisms exist to protect authenticators commensurate with the sensitivity of the	5	
				Functional	intersects with			Mechanisms exist to ensure vendor-supplied defaults are changed as part of the	5	
Processing				Functional	intersects with	Password Managers	IAC-10.11	Mechanisms exist to protect and store passwords via a password manager tool.	5	
Part				Functional	intersects with	Credential Sharing	IAC-19		5	
Fuestional elements with Poulogie Assertion 50 (C. 1) Fuestional Social of Physical Environmental 150 (C. 1) Fuestional Minimization with Social Scale of Soci				Functional	intersects with	Periodic Review	CFG-03.1		5	
Processor   Section   Processor   Section   Processor   Section				Functional	intersects with	Password Managers	IAC-10.11		5	
Procedure   Proc				Functional	intersects with		IAC-21.3	defined personnel or roles without management approval.	5	
Activity				Functional	subset of		PES-01	controls.	10	
Functional Interests with Purchase of Expending Conference of Expending Confer				Functional	intersects with	Separation of Duties (SoD)	HRS-11	potential inappropriate activity without collusion.	5	
Acces 19th  Acces								principle of "least privilege."		
Functional subset of Menting Access  Functional subset of Menting Access  Functional interacts with Cange of Roles & Dutte  Functional interacts with Cange of Roles & Dutte  Functional interacts with Authenticate Management (Access Central Project Access Central Project Acce								governs the assignment of access rights.  Mechanisms exist to periodically-review the privileges assigned to individuals and service		
Access right  Ac								privileges, as necessary.		
Access rights  Functional  Internets with  Funct						Management (IAM)		management controls.  Mechanisms exist to revoke user access rights following changes in personnel roles and		
Access rights  We a sony of SO 27000 for control contents:  ### Access rights  ### Access rights for concernment, unon termination of \$ \$  ### Access rights for concernment right and unon the facility  ### Access rights  ### Access rights ### Access rights ### Access rights ### Access rights ### Access rights ### Access rights ### Access rights ### Access rights ### Acces				Functional		Authenticator Management			5	
Functional intersects with Functional intersects				Functional		Obvious Assess Control	DEC 03			
Functional intersects with Privilege Account Management (Precipional Access with Privilege Account Management (Precipional Access with Access to the Management (Precipional Access with Access with Access to the Management (Precipional Access to the Management (Precipional Access with Access to the Management (Precipional Access to the Management of System Access to the Manageme	5.18	Access rights		runctional	intersects with	Physical Access Control	PE3-03	those areas within the facility officially designated as publicly accessible).	,	
Functional intersects with Account Management  Functional intersects with  Functional				Functional	intersects with		IAC-07.2	employment or contract.	5	
Functional intersects with Least Privilege   Lea				Functional	intersects with		PES-02	authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).	5	
Functional intersects with functional intersects with functional intersects with provinged Account functional intersects with fun				Functional	intersects with	Account Management	IAC-15	system, service, application, guest and temporary accounts.	5	
Functional intersects with Privileged Accounts Functional intersects with Database Access   IAC-102   Mechanisms exist to restrict and control privileged access rights for users and services.   5				Functional	intersects with	Least Privilege	IAC-21	to processes necessary to accomplish assigned tasks in accordance with organizational	5	
Functional intersects with Management (PAM)  Functional intersects with Database Access Intersects with Database Access Intersects with Punctional Intersect				Functional	intersects with		IAC-16.1		5	
Functional intersects with Punctional				Functional	intersects with		IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
Functional intersects with Functional intersects with Functional intersects with Role Based Physical Access 7  Functional intersects with Role Based Physical Access 8  Functional intersects with Role Based Physical Access 9  Functional intersects with Role Based Physical Access				Functional	intersects with		IAC-20.2		5	
Functional intersects with Programs Agreements of Superinding and Superinding and Superinding Agreements and application controls.    Functional intersects with Requisered Data Requisered Da				Functional	intersects with		IAC-15.2	Automated mechanisms exist to disable or remove temporary and emergency accounts	5	
Functional intersects with Role-Based Physical Access   Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.   Cacolities based on the position or role the individual.   Cacolities based on the position or role the individual.   Cacolities beneficially and the position of the position of the position of the position of the individual.   Cacolities base				Functional	intersects with	Use of Privileged Utility	IAC-20.3	Mechanisms exist to restrict and tightly control utility programs that are capable of overriding system and application controls.	5	
Functional intersects with Management (Directory Security Management)  Functional intersects with Security Functional intersects with Functional				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.		
Functional intersects with Management (Directory Services)   4C-15.1   Machanisms exist to support to enlargement on system accounts (e.g., 5   6   6   6   6   6   6   6   6   6				Functional	intersects with	Regulated Data	IAC-20.1	whose job requires such access.	5	
Functional intersects with Security Intersects with Security Third-Party Contract Requirements for Cybersecurity & data privacy requirements for Cybersecurity & data privacy requirements for Cybersecurity & data privacy requirements with third-party intersects with Conflict of Interests  Functional intersects with Conflict of Interests  Functional subset of Third-Party Management TPM-01 Mechanisms exist to ensure that the interests of external service providers are consistent with an offect organizational interests.  Functional subset of Third-Party Management TPM-01 Mechanisms exist to ensure response/recovery planning and testing are conducted with Security Reputational interests.				Functional	intersects with	Management (Directory Services)	IAC-15.1	directory services).	5	
Functional intersects with lines-year y contract requirements with third-parties, reflecting the organization's needs to protect its systems. 5  Functional intersects with Conflict of Interests TPM-04.3  Functional subset of Third-Party Management TPM-01  Functional intersects with Party Incident Temporary Incident				Functional	intersects with	Security	TPM-06	responsibilities for third-party providers.	5	
Functional subset of Third-Party Incident Functional interests with Third-Party Incident Functional subset of Third-Party Incident Functional interests with an effect organizational interests.  10 Mechanisms exist to facilitate the implementation of third-party management controls. 10 Third-Party Incident Functional interests with Mechanisms exist to ensure response/frecovery planning and testing are conducted with 5				Functional	intersects with		TPM-05	requirements with third-parties, reflecting the organization's needs to protect its systems,	5	
Third-Party Incident Functional intersects with Recognose & Recognory TPM-11 The Party Incident Third-Party Incident Third-Party Incident Third-Party Incident Third-Party Incident Third-Party Incident Third-Party Incident				Functional	intersects with	Conflict of Interests	TPM-04.3	Mechanisms exist to ensure that the interests of external service providers are consistent	5	
Functional interserts with Response & Bernard TPM-11   Mechanisms exist to ensure response/recovery planning and testing are conducted with 5				Functional	subset of		TPM-01		10	
runicuosa intersecto with septime a secovery response a secovery remains a secovery capabilities.				Functional	intersects with	Response & Recovery	TPM-11		5	



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			Functional	intersects with	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
			Functional	intersects with	Processes To Address Weaknesses or Deficiencies	TPM-03.3	Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
5.19		Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
			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	Limit Potential Harm	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain.	5	
			Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data. Mechanisms exist to monitor, regularly review and audit External Service Providers (ESPs)	5	
			Functional	intersects with	Review of Third-Party Services	TPM-08	for compliance with established contractual requirements for cybersecurity & data privacy controls.	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 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	Supply Chain Coordination	IRO-10.4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident.	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	
5.20	Addressing information security within supplier	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Limit Potential Harm	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain.	5	
	agreements		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	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
			Functional	intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and audit External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	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	subset of	Information Assurance (IA) Operations	IAO-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy assessment and authorization controls.	10	
			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 formally assess the cybersecurity & data privacy controls in systems,	5	
			Functional	intersects with	Assessments	IAO-02	applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	5	
5.21	Managing information security in the ICT supply chain	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Specialized Assessments	IAO-02.2	Mechanisms exist to conduct specialized assessments for: - Statutory, regulatory and contractual compliance obligations; - Monitoring capabilities; - Mobile devices; - Oatabases; - Oatabases;	5	
					Security Compromise		Performance/load testing.  Mechanisms exist to compel External Service Providers (ESPs) to provide notification of		
			Functional	intersects with	Notification Agreements  Third-Party Processing, Storage and Service	TPM-05.1	actual or potential compromises in the supply chain that can potentially affect or have adversely affected systems, applications and/or services that the organization utilizes. Mechanisms exist to restrict the location of information processing/storage based on	5	
					Locations Third-Party Contract		business requirements.  Mechanisms exist to require contractual requirements for cybersecurity & data privacy	_	
			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 develop a plan for Supply Chain Risk Management (SCRM) associated	5	
			Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	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	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 monitor, regularly review and audit External Service Providers (ESPs)	5	
			Functional	intersects with	Review of Third-Party Services	TPM-08	for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
	Monitoring, review and		Functional	intersects with	Processes To Address Weaknesses or Deficiencies	TPM-03.3	Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
5.22	change management of supplier services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	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	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-	5	
			Functional	intersects with	Supply Chain Protection	TPM-03	party.  Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5	
			Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	5	
			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	5	
			Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	appropriately segmented from other tenant users.  Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External	5	
			Functional	subset of	Cloud Services	CLD-01	Service Providers (ESPs).  Mechanisms exist to facilitate the implementation of cloud management controls to	10	
			Functional	intersects with	Application & Program	CLD-04	ensure cloud instances are secure and in-line with industry practices.  Mechanisms exist to ensure support for secure interoperability between components with application. Program place for Application 8, Program placety	5	
5.23		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Interface (API) Security  Cloud Security Architecture	CLD-02	Application & Program Interfaces (APIs).  Mechanisms exist to ensure the cloud security architecture supports the organization's technology strategy to securely design, configure and maintain cloud employments.	5	
	use ot cloud services	https://www.iso.org/standard/75652.html	Functional	intersects with	Specialized Assessments	IAO-02.2	Mechanisms exist to conduct specialized assessments for: *Statutory, regulatory and contractual compliance obligations; *Monitoring capabilities; *Mobile devices; *Jatabases;	5	
l	l	I					Performance/load testing.		



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			Functional	intersects with	Geolocation Requirements for Processing, Storage and Service Locations	CLD-09	Mechanisms exist to control the location of cloud processing/storage based on business requirements that includes statutory, regulatory and contractual obligations.	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	5	
			Functional	intersects with	Incident Handling	IRO-02	(CSP) and its customers.  Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
	Information security		Functional	intersects with	Incident Response Plan	IRO-04	reporting, analysis, containment, eradication and recovery.  Mechanisms exist to maintain and make available a current and viable Incident Response	5	
5.24	incident management planning and	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Incident Response	IRO-01	Plan (IRP) to all stakeholders.  Mechanisms exist to implement and govern processes and documentation to facilitate an	10	
	preparation	3,	Tunctional	300300	Operations  Root Cause Analysis (RCA)		organization-wide response capability for cybersecurity & data privacy-related incidents.  Mechanisms exist to incorporate lessons learned from analyzing and resolving	10	
			Functional	intersects with	& Lessons Learned	IRO-13	cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	5	
			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	
5.25	Assessment and	Buy a copy of ISO 27002 for control content:	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, regulations and	5	
5.25	security events	https://www.iso.org/standard/75652.html	Functional	intersects with	Situational Awareness For Incidents	IRO-09	contractual obligations.  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	Chain of Custody &	IRO-08	reporting, analysis, containment, eradication and recovery.  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	5	
	Response to		Functional	intersects with	Forensics Incident Handling	IRO-02	practices.  Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
5.26	information security incidents	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Incident Response Plan	IRO-02	reporting, analysis, containment, eradication and recovery.  Mechanisms exist to maintain and make available a current and viable Incident Response	5	
				intersects with	(IRP) Integrated Security Incident		Plan (IRP) to all stakeholders.  Mechanisms exist to establish an integrated team of cybersecurity, IT and business	5	
	Learning from		Functional	intersects with	Response Team (ISIRT)	IRO-07	function representatives that are capable of addressing cybersecurity & data privacy incident response operations. Mechanisms exist to incorporate lessons learned from analyzing and resolving	3	
5.27	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	cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	10	
5.28	Collection of evidence	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Chain of Custody & Forensics	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 practices.	10	
			Functional	intersects with	Coordinate With External Service Providers	BCD-01.2	Mechanisms exist to coordinate internal contingency plans with the contingency plans of	5	
			Functional	intersects with	Coordination With External	IRO-11.2	external service providers to ensure that contingency requirements can be satisfied.  Mechanisms exist to establish a direct, cooperative relationship between the	5	
					Providers  Contingency Plan Testing &		organization's incident response capability and external service providers.  Mechanisms exist to conduct tests and/or exercises to evaluate the contingency plan's		
	Information security	D	Functional	intersects with	Exercises	BCD-04	effectiveness and the organization's readiness to execute the plan.	5	
5.29	during disruption	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Coordinate with Related Plans	BCD-01.1	Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans.	5	
			Functional	subset of	Business Continuity Management System (BCMS)	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	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	IRO-06.1	Mechanisms exist to coordinate incident response testing with organizational elements responsible for related plans.	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-Service Dependencies	AST-01.1	Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function.	5	
			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	Coordinate With External Service Providers	BCD-01.2	Mechanisms exist to coordinate internal contingency plans with the contingency plans of external service providers to ensure that contingency requirements can be satisfied.	5	
5.30	ICT readiness for business continuity	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	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	subset of	Business Continuity Management System (BCMS)	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) olavbooks).	10	
			Functional	intersects with	Incident Response Testing	IRO-06	Mechanisms exist to formally test incident response capabilities through realistic	5	
			Functional	intersects with	Asset Governance	AST-01	exercises to determine the operational effectiveness of those capabilities.  Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and	5	
					Third-Party Contract	TPM-05	manage asset management controls.  Mechanisms exist to require contractual requirements for cybersecurity & data privacy	-	
			Functional	intersects with	Requirements  Cybersecurity & Data	TPM-05	requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
			Functional	intersects with	Protection Controls Oversight	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
5.31	Legal, statutory, regulatory and	Buy a copy of ISO 27002 for control content:	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	
	contractual requirements	https://www.iso.org/standard/75652.html	Functional	intersects with	Export-Controlled Technology	CRY-01.2	Mechanisms exist to address the exporting of cryptographic technologies in compliance with relevant statutory and regulatory requirements.	5	
			Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition- related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
			Functional	intersects with	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	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	intersects with	Internal Use of Personal Data For Testing, Training	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	5	
					and Research	03.1	and research purposes; and  • Authorizes the use of PD when such information is required for internal testing, training and research.		
			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 authorize the processing of their Personal Data (PD) prior to its	5	
			Functional	intersects with	Choice & Consent	PRI-03	Mechanisms exist to automize the processing or their resional uata (PU) prior to its 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	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
5.33	Protection of records	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Personal Data Retention & Disposal	PRI-05	Mechanisms exist to:  • Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purposely identified in the notice or as required by law;  • Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and  • Use organization-defined techniques or methods to ensure secure deletion or	5	
					Data Protection Impact		destruction of PD (including originals, copies and archived records).  Mechanisms exist to conduct a Data Protection Impact Assessment (DPIA) on systems,		
			Functional	intersects with	Assessment (DPIA)	RSK-10	Applications and services that store, process and/or transmit Personal Data (PD) to	5	



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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	Notes (optional)
			Functional	intersects with	Usage Restrictions of Sensitive Personal Data	PRI-05.4	Mechanisms exist to restrict the use of Personal Data (PD) to only the authorized purpose(s) consistent with applicable laws, regulations and in data privacy notices.	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	
			Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition- related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
			Functional	intersects with	Information Sharing With Third Parties	PRI-07	Mechanisms exist to disclose Personal Data (PD) to third-parties only for the purposes identified in the data privacy notice and with the implicit or explicit consent of the data	5	
5.34	Privacy and protection of Pil	Buy a copy of SO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Privacy Notice	PRI-02	subject.  *Make data privacy notice(s) available to individuals upon first interacting with an organization and subsequently as necessary;  *Fissures that data privacy notices are clear and easy-to-understand, expressing information about Personal Data (PD) processing in plain language that meets all legal 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 (PD) is collected, used, maintained and shared in its data privacy notices.	5	
			Functional	subset of	Data Privacy Program	PRI-01	Mechanisms exist to facilitate the implementation and operation of data privacy controls.	10	
			Functional	intersects with	Security of Personal Data	PRI-01.6	Mechanisms exist to ensure Personal Data (PD) is protected by security safeguards that are sufficient and appropriately scoped to protect the confidentiality and integrity of the PD.	5	
			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	Audit Activities	CPL-04	Mechanisms exist to thoughtfully plan audits by including input from operational risk and compiliance partners to minimize the impact of audit-related activities on business operations.	5	
5.35	Independent review of information security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Functional Review Of Cybersecurity & Data Protection Controls	CPL-03.2	operations.  Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
	miormation security	m.ps.//www.so.org/statuaru//3032.html	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	Mechanisms exist to ensure managers regularly review the processes and documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5	
			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	Functional Review Of Cybersecurity & Data Protection Controls	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
	Compliance with		Functional	intersects with	Testing, Training & Monitoring	PRI-08	Mechanisms exist to conduct cybersecurity & data privacy testing, training and monitoring activities	5	
5.36	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 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	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	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
			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 tasks.	10	
5.37	Documented operating procedures	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Service Delivery (Business Process Support)	OPS-03	Mechanisms exist to define supporting business processes and implement appropriate goverance 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 specific goals of the process area.	5	
			Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
			Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
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 HRS-04.1	authorizing access.  Mechanisms exist to ensure that individuals accessing a system that stores, transmits or	5	
			Functional	intersects with	Protection Measures  Rules of Behavior	HRS-04.1 HRS-05.1	processes information requiring special protection satisfy organization-defined personnel screening criteria.  Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of	5	
			Functional	intersects with	Rules of Behavior  Terms of Employment	HRS-05.1	technologies, including consequences for unacceptable behavior.  Mechanisms exist to require all employees and contractors to apply cybersecurity & data	5	
			Functional	intersects with	Use of Mobile Devices	HRS-05.5	privacy principles in their daily work.  Mechanisms exist to manage business risks associated with permitting mobile device access to organizational resources.	5	
6.2	Terms and conditions of employment	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Software Licensing Restrictions	AST-02.7	Mechanisms exist to protect Intellectual Property (IP) rights with software licensing restrictions.	5	
			Functional	intersects with	Use of Communications Technology	HRS-05.3	maliciously.	5	
			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	Cybersecurity & Data Privacy Awareness Training	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	5	
6.3	Information security awareness, education and training	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: • Before authorizing access to the system or performing assigned duties; • When required by system changes; and • Annually thereafter.	5	
			Functional	subset of	Cybersecurity & Data Privacy-Minded Workforce	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	10	
6.4	Disciplinary process	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
		https://www.iso.org/standard/75652.html	Functional	intersects with	Workplace Investigations  Personnel Termination	HRS-07.1	Mechanisms exist to conduct employee misconduct investigations when there is reasonable assurance that a policy has been violated.	5	
	Responsibilities after	Ruy a copy of ISO 27002 for control contont	Functional	intersects with	Post-Employment	HRS-09.3	Mechanisms exist to govern the termination of individual employment.  Mechanisms exist to govern former employee behavior by notifying terminated individuals of applicable, legally binding post-employment requirements for the	5	
6.5	termination or change	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652 html			Requirements		protection of organizational information.		



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)
	of employment	nttps://www.iso.org/standard/73032.html	Functional	intersects with	Personnel Transfer	HRS-08	Mechanisms exist to adjust logical and physical access authorizations to systems and	(optional)	
							facilities upon personnel reassignment or transfer, in a timely manner.  Mechanisms exist to require Non-Disclosure Agreements (NDAs) or similar confidentiality		
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	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.	5	
		https://www.iso.org/standard/75652.html	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	Monitoring Reporting  Cybersecurity & Data	MON-06	Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous activities.	5	
			Functional	intersects with	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	
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	5	
			Functional	intersects with	Incident Handling	IRO-02	<ul> <li>Regulatory authorities.</li> <li>Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.</li> </ul>	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	
7.0	Physical controls	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
			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	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
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 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 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 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 Access Logs	PES-03.3	Physical access control mechanisms exist to generate a log entry for each access through controlled ingress and egress points.	5	
			Functional	intersects with	Delivery & Removal	PES-10	controlled ingress and egress points.  Physical security mechanisms exist to isolate information processing facilities from points such as delivery and loading areas and other points to avoid unauthorized access.	5	
7.2	Physical entry	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intercects with	Visitor Control	PES-06	Physical access control mechanisms exist to identify, authorize and monitor visitors	5	
		nttps://www.iso.org/standard/73032.html	Functional	intersects with	Controlled Ingress & Egress		before allowing access to the facility (other than areas designated as publicly accessible).  Physical access control mechanisms exist to limit and monitor physical access through	5	
			Functional	intersects with	Points	PES-03.1	controlled ingress and egress points.  Physical security mechanisms exist to allow only authorized personnel access to secure	5	
			Functional	intersects with	Working in Secure Areas  Working in Secure Areas	PES-04.1	areas.  Physical security mechanisms exist to allow only authorized personnel access to secure	5	
	Securing offices, rooms	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Physical Security of Offices,	PES-04.1	areas.  Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are	5	
7.3	and facilities	https://www.iso.org/standard/75652.html	Tunctional	intersees with	Rooms & Facilities	12304	designed and implemented for offices, rooms and facilities.  Physical security mechanisms exist to locate system components within the facility to	,	
			Functional	intersects with	Equipment Siting & Protection	PES-12	minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	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	
7.4	Physical security monitoring	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	5	
			Functional	intersects with	Intrusion Alarms / Surveillance Equipment	PES-05.1	Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment.	5	
			Functional	intersects with	Monitoring Physical Access To Information Systems	PES-05.2	Facility security mechanisms exist to monitor physical access to critical information systems or sensitive/regulated data, in addition to the physical access monitoring of the facility.	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.	5	
	Protecting against	Buy a copy of ISO 27002 for control content:	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
7.5	physical and environmental threats	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	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
			Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
7.6	Working in secure areas	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	10	
7.7	Clear desk and clear screen	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	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	
	screell		Functional	subset of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
7.8	Equipment siting and protection	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Equipment Siting & Protection	PES-12	Physical security mechanisms exist to locate system components within the facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	10	
			Functional	subset of	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	10	
			Functional	intersects with	Tamper Detection  Work From Anywhere	AST-08	Mechanisms exist to periodically inspect systems and system components for Indicators of Compromise (IoC).	5	
7.9	Security of assets off- premises	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	(WFA) - Telecommuting Security	NET-14.5	Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.  Mechanisms exist to verify logical configuration settings and the physical integrity of	5	
			Functional	intersects with	Tamper Protection Unattended End-User	AST-15 AST-06	critical technology assets throughout their lifecycle.  Mechanisms exist to implement enhanced protection measures for unattended systems to	5	
			Functional	intersects with	Equipment Security of Assets & Media	AST-06	protect against tampering and unauthorized access.  Mechanisms exist to maintain strict control over the internal or external distribution of	5	
			Functional	subset of	Data Protection	DCH-01	any kind of sensitive/regulated media.  Mechanisms exist to facilitate the implementation of data protection controls.	10	
			Functional	intersects with	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	5	
			Functional	intersects with	Limitations on Use	DCH-10.1	Mechanisms exist to restrict the use and distribution of sensitive / regulated data.  Mechanisms exist to protect and control digital and non-digital media during transport	5	
			Functional	intersects with	Media Transportation  Physical Media Disposal	DCH-07 DCH-08	outside of controlled areas using appropriate security measures.  Mechanisms exist to securely dispose of media when it is no longer required, using formal	5	
	]		Functional	intersects with	Media Use	DCH-10	procedures.  Mechanisms exist to restrict the use of types of digital media on systems or system	5	



# 1800	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)
+ 14	7.10	Storage media		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	5	
1				Functional	intersects with		DCH-07.2	Cryptographic mechanisms exist to protect the confidentiality and integrity of information	5	
Heave to the control of the contr				Functional	intersects with	Removable Media Security	DCH-12	Mechanisms exist to restrict removable media in accordance with data handling and	5	
1 No. 1 N				Functional	intersects with	Use of Personal Devices	AST-12	Mechanisms exist to restrict the possession and usage of personally-owned technology	5	
1				Functional	intersects with	Removal of Assets	AST-11	Mechanisms exist to authorize, control and track technology assets entering and exiting	5	
Many Many Many Many Many Many Many Many				Functional	intersects with	Emergency Lighting	PES-07.4	that activates in the event of a power outage or disruption and that covers emergency	5	
Heave to the second se				Functional	intersects with	Supporting Utilities	PES-07		5	
1	7.11	Supporting utilities		Functional	intersects with	Emergency Power	PES-07.3	minimally-required operational capability, in the event of an extended loss of the primary power source.	5	
Page				Functional	intersects with	Automatic Voltage Controls	PES-07.1		5	
Heaves to the second se				Functional	intersects with	Emergency Shutoff	PES-07.2	<ul> <li>Placing emergency shutoff switches or devices in close proximity to systems or system components to facilitate safe and easy access for personnel; and</li> </ul>	5	
Page				Functional	intersects with	Supporting Utilities	PES-07		5	
No.   Property of the part of the par	7.12	Cabling security		Functional	intersects with		PES-12.1	carrying data or supporting information services from interception, interference or damage.	5	
Hand to be provided to the protocol of the pro				Functional	intersects with		PES-12	minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized access.	5	
Marie		F-mir	D	Functional	intersects with	Controlled Maintenance	MNT-02	the system, application or service.	5	
March   Marc	7.13		https://www.iso.org/standard/75652.html					defined Recovery Time Objective (RTO).	-	
1 1				Functional	subset of		MNT-01	implementation of maintenance controls across the enterprise.	10	
1 Management of the control of the	7.14		https://www.iso.org/standard/75652.html	Functional	equal	Destruction or Re-Use of	AST-09	organization-defined techniques and methods to prevent information being recovered	10	
Handble Fig. 1 Provided 1 Prov	8.0	Technological controls		Functional	no relationship		N/A		N/A	No requirements to map to.
Hand to the control of the control o				Functional	intersects with	Use of Personal Devices	AST-12		5	
Part				Functional	subset of		END-01		10	
Heater the register of the control o						Devices		devices to organizational systems.		
1						Centralized Management		Mechanisms exist to develop, govern & update procedures to facilitate the		
Fig. 1. Processed in the control of	8.1	User endpoint devices				Kiosks & Point of		Mechanisms exist to appropriately protect devices that capture sensitive/regulated data		
Purpose   Purp				Functional	intersects with	Endpoint Protection	END-02	Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices.	5	
Heat to be companied to the companied of				Functional	intersects with	Account Lockout	IAC-22	an organization-defined time period and automatically locks the account when the	5	
Base Base Base Base Base Base Base Base				Functional	intersects with		AST-06	Mechanisms exist to implement enhanced protection measures for unattended systems to	5	
Heavest field to the process of the				Functional	intersects with	Privileged Account	IAC-16		5	
Marchand	8.2	Privileged access rights		Functional	intersects with	Periodic Review of Account	IAC-17	accounts to validate the need for such privileges and reassign or remove unnecessary	5	
Hand and the standard states and states and states and states and states and states and states are stated as a constant or planted and states are stated as a constant and states are stated as a constant or planted and states are stated as a constant or planted and states are stated as a constant and states are stated and states are stated as a constant and states are stated as a constant and sta				Functional	intersects with		IAC-16.1	elevated privileges is authorized by the appropriate level of organizational management.	5	
Have before the control content of the control c				Functional	intersects with		IAC-08	resources that applies need-to-know and fine-grained access control for	5	
Horizonia section again and section of the section				Functional	intersects with	Least Functionality	CFG-03	specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
Functional interacts with Least Privilege  4. Access to source code  5. Access to source code  6. Access to source code  6	83			Functional	intersects with		CFG-02	technology platforms that are consistent with industry-accepted system hardening	5	
Purcious	3.3	restriction	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	5	
Functional Intersects with Data Flow Enforcement, Access Control Contents:  ***********************************				Functional	subset of		CFG-01		10	
Access to source costs of SQ 2002 for control content: https://www.iso.org/standard/7562.html  8.4 Access to source costs be eartherful to the part of SQ 2002 for control content: https://www.iso.org/standard/7562.html  8.5 Access to Frogenia Fro						Data Flow Enforcement –		Mechanisms exist to design, implement and review firewall and router configurations to		
Activity of the process of the part of the			Buy a copy of ISO 27002 for control content:			Access Control Lists (ACLs)		restrict connections between untrusted networks and internal systems.		
Functional intersects with Secure authentication and intersects with Secure authentication and s	8.4	Access to source code				Code				
Society authentication in the procession of the procession against malware in the procession of the pr								security functions of the system.		
Functional intersects with intersects with particular intersects with intersects with particular intersects with intersects with industry accepted system hardening season for departed may anticipated future capacity and intersects with industry accepted system hardening season for departed may anticipated future capacity and intersects with intersects with industry accepted system hardening season for departed may anticipated future capacity and intersects with intersects with making and environmental support will exist during contingency.  Functional intersects with Salicious Code Protection (Anti-Malware)  Functional intersects with intersects with salicious Code Protection (Anti-Malware)  Functional intersects with participated future capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency.  Functional intersects with Malicious Code Protection (Anti-Malware)  Functional intersects with participated future capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency.  Functional intersects with Malicious Code Protection (Anti-Malware)  Functional intersects with participated future capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency.  Functional intersects with Malicious Code Protection (Anti-Malware)  Functional intersects with Advanced Review Signature Updates  Functional intersects with Participated Malicious Code Protection (Anti-Malware)  Functional intersects with Participated Review Signature Updates  Functional intersects with Participated Review Signature Updates  Functional intersects with Participated Review Signature Updates  Functional intersects with Participated Review Signature Updates and Functions, ports, protocols and services.  Functional intersects with Participated Review Signature Updates and Functions, ports, protoc	8.5	Secure authentication				Measures		endpoint devices.		
Baseline Configurations  4. Punctional intersects with authors of Configurations in the activation intersect with standards.  5. Survivor of SO 27002 for control content: https://www.iso.org/standard/75652.html  5. Protection against malware  8. Buy a copy of SO 27002 for control content: https://www.iso.org/standard/75652.html  6. Functional intersects with Capacity Planning  7. Functional intersects with Capacity Planning  8. Buy a copy of SO 27002 for control content: https://www.iso.org/standard/75652.html  7. Functional intersects with Capacity Planning  7. Functional intersects with Periodic Review Signature Updates  8. Functional intersects with Periodic Review Package  9.								Mechanisms exist to develop, document and maintain secure baseline configurations for		
Hundrid and Subset of Management Intrust/www.iso.org/standard/7562.html  Functional intersects with Capacity Planning Capacity Capacity Capacity Capacity Planning Capacity Ca						Baseline Configurations		standards.  Mechanisms exist to facilitate the implementation of capacity management controls to		
Protection against malware  Protection against malware  Buy a copy of 50 27002 for control content: https://www.iso.org/standard/7562.html  Functional intersects with Malicious Code Protection (Anth-Malware) Functional intersects with Periodic Review  Functional intersects with Periodic Review periodically review system configurations to identify and disable uninersects to conduct operations to identify and disable uninersects to conduct operations to identify and disable uninersects to conduct operations, portioning and review system configurations to identify and disable with Rechanisms exist to conduct operations, portioning an	8.6	Capacity management				Management		requirements.  Mechanisms exist to conduct capacity planning so that necessary capacity for information		
Protection against malware  Protection against sexist to periodically review system configurations to identify and disable undensity and substance against malware against malware against malware  Protection against malware technologies, including signature  Science against malware  Protection against malware								operations.		
Automatic Antimalware Signature Update Signature Signat	8.7			Functional	intersects with	(Anti-Malware)	END-04	code.	5	
Functional intersects with Periodic Review Periodic Review Unnecessary and/or non-secure functions, ports, protocols and services.  Functional intersects with Testing, Training & Mechanisms exist to conduct cybersecurity & data privacy testing, training and monitoring activities  Functional intersects with Software & Firmware Patching			- ,			Signature Updates		definitions.		
Functional intersects with Monitoring PRI-08 monitoring activities 5  Functional intersects with Parkhing Patching PRI-08 monitoring activities 5  Functional intersects with Patching Patching Patching Punctional Subset of Winerability Patch Management Program (VPM-0) Wechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.  Functional Subset of Winerability Patch Management Program (VPM-0) Wechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.				Functional	intersects with	Periodic Review	CFG-03.1	unnecessary and/or non-secure functions, ports, protocols and services.	5	
Functional subset of Vulnerability & Patching VPM-01 Applications and firmware. 3  Punctional Subset of Vulnerability & Patch Management Program (VPM-01 VPM-01 VPM				Functional	intersects with		PRI-08		5	
Functional subset of Management Program (VPM-01 (VPMP))  We claimlance exist to admittate the implementation and monitoring or voiner admitty and management controls.				Functional	intersects with	Patching	VPM-05		5	
				Functional	subset of	Management Program	VPM-01		10	
				Functional	intersects with		CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the	5	

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8.8		Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by recurring vulnerability scanning of systems and web applications.	(optional) 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	
					Cybersecurity & Data		Mechanisms exist to provide a cybersecurity & data protection controls oversight function	_	
			Functional	intersects with	Protection Controls Oversight	CPL-02	that reports to the organization's executive leadership.	5	
			Functional	intersects with	Vulnerabilities Related To Incidents	IRO-10.3	Mechanisms exist to report system vulnerabilities associated with reported cybersecurity & data privacy incidents to organization-defined personnel or roles.	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	Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface management activities.	5	
			Functional	intersects with	Assignment of Responsibility	CFG-01.1	Mechanisms exist to implement a segregation of duties for configuration management that prevents developers from performing production configuration management duties.	5	
			Functional	intersects with	System Hardening Through	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening	5	
	Configuration	Buy a copy of ISO 27002 for control content:			Baseline Configurations		standards.	-	
8.9	management	https://www.iso.org/standard/75652.html	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	
			Functional	subset of	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls.	10	
			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	
							As part of system component installations and upgrades.  Mechanisms exist to retain media and data in accordance with applicable statutory,	_	
			Functional	intersects with	Media & Data Retention	DCH-18	regulatory and contractual obligations.  Mechanisms exist to:	5	
							** 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;		
			Functional	intersects with	Personal Data Retention & Disposal	PRI-05	Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and	5	
							Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).		
0.10	Information district	Buy a copy of ISO 27002 for control content:	Functional	intersects with	Information Disposal	DCH-21	Mechanisms exist to securely dispose of, destroy or erase information.	5	
8.10	Information deletion	https://www.iso.org/standard/75652.html	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	
			Functional	intersects with	Secure Disposal, Destruction or Re-Use of	AST-09	Mechanisms exist to securely dispose of, destroy or repurpose system components using organization-defined techniques and methods to prevent information being recovered	5	
			Functional	intersects with	Equipment Physical Media Disposal	DCH-08	from these components.  Mechanisms exist to securely dispose of media when it is no longer required, using formal	5	
			Functional	intersects with	System Media Sanitization	DCH-09	procedures.  Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or constitute of the information prior to disposal, release out of	5	
					Sanitization of Personal		with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.		
			Functional	intersects with	Data (PD)	DCH-09.3	Mechanisms exist to facilitate the sanitization of Personal Data (PD).  Mechanisms exist to apply data masking to sensitive/regulated information that is	5	
			Functional	intersects with	Masking Displayed Data  Data Masking	DCH-03.2 PRI-05.3	displayed or printed.  Mechanisms exist to mask sensitive information through data anonymization,	5	
8.11	Data masking	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	runctional	intersects with	Removal, Masking,	PRI-U5.5	pseudonymization, redaction or de-identification.	,	
			Functional	intersects with	Encryption, Hashing or Replacement of Direct	DCH-23.4	Mechanisms exist to remove, mask, encrypt, hash or replace direct identifiers in a dataset.	5	
			Functional	intersects with	Identifiers Configure Systems, Components or Services for	CFG-02.5	Mechanisms exist to configure systems utilized in high-risk areas with more restrictive	5	
					High-Risk Areas		baseline configurations.	-	
			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	
			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	5	
			Functional	intersects with	Configuration Management Program	CFG-01	standards.  Mechanisms exist to facilitate the implementation of configuration management controls.	5	
8.12	Data leakage prevention	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Information Leakage Due To Electromagnetic Signals	PES-13	Facility security mechanisms exist to protect the system from information leakage due to	5	
					Emanations		electromagnetic signals emanations.  Mechanisms exist to utilize the concept of least privilege, allowing only authorized access		
			Functional	intersects with	Least Privilege	IAC-21	to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
			Functional	intersects with	Centralized Management of Cybersecurity & Data	SEA-01.1	Mechanisms exist to centrally-manage the organization-wide management and implementation of cybersecurity & data privacy controls and related processes.	5	
			Functional	intersects with	Privacy Controls  Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.  Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity &	5	
			Functional	intersects with	Secure Engineering Principles	SEA-01	data privacy practices in the specification, design, development, implementation and modification of systems and services.	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	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	
8.13	Information backup	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Data Backups	BCD-11	Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to	5	
							satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).  Mechanisms exist to store backup copies of critical software and other security-related		
			Functional	intersects with	Separate Storage for Critical Information	BCD-11.2	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	Alternate Processing Site	BCD-09	Mechanisms exist to establish an alternate processing site that provides security measures equivalent to that of the primary site.	5	
8.14	Redundancy of information processing	Buy a copy of ISO 27002 for control content:	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	
	facilities	https://www.iso.org/standard/75652.html	Functional	intersects with	Redundant Secondary	BCD-11.7	Mechanisms exist to maintain a failover system, which is not collocated with the primary system, application and/or service, which can be activated with little-to-no loss of	5	
					System Privileged Functions		system, application and/or service, which can be activated with fittle-to-no loss of information or disruption to operations.  Mechanisms exist to log and review the actions of users and/or services with elevated	-	
			Functional	intersects with	Logging	MON-03.3	Privileges.  Automated mechanisms exist to correlate both technical and non-technical information	5	
			Functional	intersects with	Correlate Monitoring Information	MON-02.1		5	
			Franklinisk	internal (1)	Centralized Collection of	MO*: 05	Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar		
			Functional	intersects with	Security Event Logs	MON-02	automated tool, to support the centralized collection of security-related event logs.  Mechanisms exist to provide an event log report generation capability to aid in detecting	5	
			Functional	intersects with	Monitoring Reporting	MON-06	Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous activities.  Mechanisms exist to monitor, correlate and respond to alerts from physical,	5	
8.15	Logging	Buy a copy of ISO 27002 for control content:	Functional	intersects with	System Generated Alerts	MON-01.4	cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
6.13	Logging	https://www.iso.org/standard/75652.html					Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum:		
			Functional	intersects with	Content of Event Logs	MON-03	Establish what type of event occurred;     When (date and time) the event occurred;	5	
							Where the event occurred; The source of the event; The source of the event;	_	
							The outcome (success or failure) of the event, and The identity of any user/subject associated with the event.  Mechanisms exist to facilitate the implementation of enterprise-wide monitoring		
			Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	



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			Functional	intersects with	Protection of Event Logs	MON-08	Mechanisms exist to protect event logs and audit tools from unauthorized access,	(optional) 5	
			Functional	intersects with	Central Review & Analysis	MON-02.2	modification and deletion. Automated mechanisms exist to centrally collect, review and analyze audit records from	5	
			Functional	subset of	Continuous Monitoring	MON-01	multiple sources.  Mechanisms exist to facilitate the implementation of enterprise-wide monitoring	10	
					Automated Tools for Real-		controls.  Mechanisms exist to utilize a Security Incident Event Manager (SIEM), or similar		
			Functional	intersects with	Time Analysis	MON-01.2	automated tool, to support near real-time analysis and incident escalation.	5	
8.16	Monitoring activities	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	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	
			Functional	intersects with	Central Review & Analysis	MON-02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	5	
			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	
8.17	Clock synchronization	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	equal	Clock Synchronization	SEA-20	Mechanisms exist to utilize time-synchronization technology to synchronize all critical system clocks.	10	
8.18	Use of privileged utility programs		Functional	equal	Use of Privileged Utility Programs	IAC-20.3	Mechanisms exist to restrict and tightly control utility programs that are capable of	10	
	programs	nttps://www.isu.urg/standard/75652.ntm	Functional	intersects with	Prohibit Installation Without Privileged Status	END-03	overriding system and application controls.  Automated mechanisms exist to prohibit software installations without explicitly assigned privileged status.	5	
			Functional	intersects with	Governing Access	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions	5	
8.19		Buy a copy of ISO 27002 for control content:	Functional	subset of	Restriction for Change Change Management	CHG-01	associated with changes to systems.  Mechanisms exist to facilitate the implementation of a change management program.	10	
	on operational systems	https://www.iso.org/standard/75652.html	Functional	intersects with	Program Configuration Change	CHG-02		5	
			runctional	intersects with	Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	3	
			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	
			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	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	
			Functional	intersects with	Network Segmentation	NET-06	Mechanisms exist to ensure network architecture utilizes network segmentation to	5	
8.20	Networks security	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html			Data Flow Enforcement –		isolate systems, applications and services that protections from other network resources.  Mechanisms exist to design, implement and review firewall and router configurations to		
			Functional	intersects with	Access Control Lists (ACLs)  Boundary Protection	NET-04 NET-03	restrict connections between untrusted networks and internal systems.  Mechanisms exist to monitor and control communications at the external network	5	
			Functional	intersects with	DMZ Networks	NET-03.1	boundary and at key internal boundaries within the network.  Mechanisms exist to monitor De-Militarized Zone (DMZ) network segments to separate	5	
			Tunctional	microcco with	Network Diagrams & Data	1121 00:1	untrusted networks from trusted networks.  Mechanisms exist to maintain network architecture diagrams that:  Contain sufficient detail to assess the security of the network's architecture;	3	
			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	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	
			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	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.	5	
8.21	Security of network services	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Network Intrusion Detection / Prevention	NET-08	Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.	5	
			Functional	intersects with	Systems (NIDS / NIPS) Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized	5	
			Functional	intersects with	Review of Third-Party	TPM-08	wireless access.  Mechanisms exist to monitor, regularly review and audit External Service Providers (ESPs)	5	
			runctional	intersects with	Services	IPIVI-U6	for compliance with established contractual requirements for cybersecurity & data privacy controls.	3	
			Functional	intersects with	Network Segmentation	NET-06	$Mechanisms\ exist\ to\ ensure\ network\ architecture\ utilizes\ network\ segmentation\ to\ isolate\ systems,\ applications\ and\ services\ that\ protections\ from\ other\ network\ resources.$	5	
8.22	Segregation of networks	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain services, protocols and ports.	5	
	neworks		Functional	intersects with	Security Management Subnets	NET-06.1	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.	5	
8.23	Web filtering	Buy a copy of ISO 27002 for control content:	Functional	equal	DNS & Content Filtering	NFT-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	10	
		https://www.iso.org/standard/75652.html	Functional	intersects with	Control & Distribution of		ability to connect to dangerous or prohibited Internet sites.  Mechanisms exist to facilitate the secure distribution of symmetric and asymmetric	5	
			Functional	intersects with	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
			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:	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	
		https://www.iso.org/standard/75652.html	Functional	subset of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
			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	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
			Functional	intersects with	Minimum Viable Product (MVP) Security	TDA-02	Mechanisms exist to ensure risk-based technical and functional specifications are established to define a Minimum Viable Product (MVP).	5	
			Functional	intersects with	Requirements Threat Analysis & Flaw Remediation During	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	5	
			Functional	intersects with	Separation of Development, Testing and Operational	TDA-08	development.  Mechanisms exist to manage separate development, testing and operational environments to reduce the risks of unauthorized access or changes to the operational	5	
			Functional	intersects with	Secure Development Life	PRM-07	environment and to ensure no impact to production systems.  Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle	5	
			Functional	intersects with	Cycle (SDLC) Management Secure Coding		(SDLC) are controlled through formal change control procedures.  Mechanisms exist to develop applications based on secure coding principles.	5	
			Functional	subset of	Technology Development &	TDA-01	Mechanisms exist to facilitate the implementation of tailored development and acquisition strategies, contract tools and procurement methods to meet unique business	10	
8.25		Buy a copy of ISO 27002 for control content:	Functional	intersects with	Acquisition  Development & Test		acquisition strategies, contract tools and procurement methods to meet unique business needs.  Mechanisms exist to manage baseline configurations for development and test	5	
3.23	cycle	https://www.iso.org/standard/75652.html			System Hardening Through		Mechanisms exist to develop, document and maintain secure baseline configurations for	5	
			Functional	intersects with	Baseline Configurations Secure Development	CFG-02	technology platforms that are consistent with industry-accepted system hardening standards.  Mechanisms exist to maintain a segmented development network to ensure a secure		
			Functional	intersects with	Environments	TDA-07	development environment.	5	
	I .		Functional	intersects with	Development Methods,	TDA-02.3	Mechanisms exist to require software vendors / manufacturers to demonstrate that their software development processes employ industry-recognized secure practices for secure	5	



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			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:  *Create 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	5	
			Functional	intersects with	Secure Coding	TDA-06	processes.  Mechanisms exist to develop applications based on secure coding principles.	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	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	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.  Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity &	5	
8.26	Application security requirements	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	subset of	Secure Engineering Principles	SEA-01	data privacy practices in the specification, design, development, implementation and modification of systems and services.	10	
			Functional	intersects with	Transmission Integrity	CRY-04	Cryptographic mechanisms exist to protect the integrity of data being transmitted.	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	5	
			Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	standards.  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, ssets, individuals, other organizations.	5	
			Functional	intersects with	Application & Program	CLD-04	Mechanisms exist to ensure support for secure interoperability between components with	5	
					Interface (API) Security Secure Engineering		Application & Program Interfaces (APIs).  Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity &		
			Functional	equal	Principles	SEA-01	data privacy practices in the specification, design, development, implementation and modification of systems and services.	10	
8.27	Secure system architecture and engineering principles	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Developer Architecture & Design	TDA-05	Mechanisms exist to require the developers of systems, system components or services to produce a design specification and security architecture that:  *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 unified approach to protection.	5	
			Functional	intersects with	Secure Coding Periodic Review	CFG-03.1	Mechanisms exist to develop applications based on secure coding principles.  Mechanisms exist to periodically review system configurations to identify and disable	5	
		Buy a copy of ISO 27002 for control content:					unnecessary and/or non-secure functions, ports, protocols and services.		
8.28	Secure coding	https://www.iso.org/standard/75652.html	Functional	equal intersects with	Secure Coding  Cybersecurity & Data Privacy Testing Throughout Development	TDA-06	Mechanisms exist to develop applications based on secure coding principles.  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;  Implement a verifiable flava remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process, and  Occument the results of the security testing and evaluation process.	5	
			Functional	intersects with	Assessments	IAO-02	processes.  Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through information Assurance Program (IAP) activities to determine the extent to which the control are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	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	5	
8.29	Security testing in development and acceptance	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Specialized Assessments	IAO-02.2	Development Life Cycle (SDLC)  Michanisms exist to conduct specialized assessments for:  *Statutory, regulatory and contractual compliance obligations;  *Mobile devices;  *Mobile devices;  *Application security;  *Application security;  *Vulnerability management;  *Vulnerability management;  *Mallicious code;  *Mallicious code;  *Insider threats and  *Performance/load etsine.	5	
			Functional	intersects with	Development Methods, Techniques & Processes	TDA-02.3	Mechanisms exist to require software vendors / manufacturers to demonstrate that their software development processes employ industry-recognized secure practices for secure programming, engineering methods, quality control processes and validation techniques to minimize flawed or malformed software.	5	
			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	
			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	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).  Mechanisms exist to facilitate the implementation of tailored development and	5	
			Functional	subset of	Technology Development & Acquisition	TDA-01	acquisition strategies, contract tools and procurement methods to meet unique business	10	
			Functional	intersects with	Supply Chain Protection	TPM-03	needs.  Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5	
			Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and	5	
			Functional	intersects with	Secure Coding	TDA-06	monitoring performance against those plans.  Mechanisms exist to develop applications based on secure coding principles.	5	
8.30	Outsourced development	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Developer Architecture & Design	TDA-05	Mechanisms exist to require the developers of systems, system components or services to produce a design specification and security architecture that:  *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 unified approach to protection.	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	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	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;  • 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	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
			Functional	intersects with	Developer Configuration	TDA-14	Mechanisms exist to require system developers and integrators to perform configuration	5	
			Functional	intersects with	Management Third-Party Personnel	TPM-06	management during system design, development, implementation and operation.  Mechanisms exist to control personnel security requirements including security roles and	5	
1	l	1	- G.I.CLIONAI	mersees with	Security		responsibilities for third-party providers.	,	



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	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	
			Functional	intersects with	Access to Program Source Code	TDA-20	Mechanisms exist to limit privileges to change software resident within software libraries.	5	
8.31	Separation of development, test and production	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	
	environments	nttps://www.iso.org/standard/75052.ntmi	Functional	intersects with	Secure Development Environments	TDA-07	Mechanisms exist to maintain a segmented development network to ensure a secure development environment.	5	
			Functional	intersects with	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
			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	
8.32	Change management	Buy a copy of ISO 27002 for control content: https://www.iso.org/standard/75652.html	Functional	intersects with	Developer Configuration Management	TDA-14	Mechanisms exist to require system developers and integrators to perform configuration management during system design, development, implementation and operation.	5	
			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	Change Management Program	CHG-01	Mechanisms exist to facilitate the implementation of a change management program.	10	
8.33	Test information	Buy a copy of ISO 27002 for control content:	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	
		https://www.iso.org/standard/75652.html	Functional	intersects with	De-Identification (Anonymization)	DCH-23	Mechanisms exist to anonymize data by removing Personal Data (PD) from datasets.	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	subset of	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
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 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	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	



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