Set Theory Relationship Mapping (STRM)



Reference Document : Secure Controls Framework (SCF) version 2024.2

Focal Document: NIST Cybersecurtiy Framework (CSF) version 2.0

Focal Document URL: https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.29.pdf

STRM URL: https://content.securecontrolsframework.com/strm/scf-2024-2-nist-csf-2-0.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.

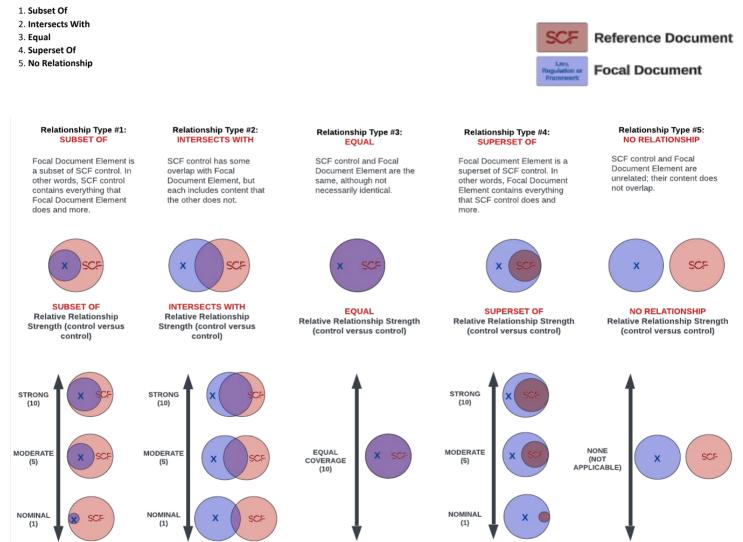
STRM relies on a justification for the relationship claim. There are three (3) options for the rationale, which is a high-level context within which the two concepts are related:

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 results 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:



FDE #	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	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
		Functional	intersects with	Program Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	8	
GV	The organization's cybersecurity risk management strategy, expectations, and policy are established, communicated, and monitored.	Functional	subset of	Risk Management Program	RSK-01	Rechanisms of periormance. Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
		Functional	intersects with	Strategic Plan & Objectives	PRM-01.1	Mechanisms exist to establish a strategic cybersecurity & data privacy-specific business plan and set of objectives to achieve that plan.	5	
						Mechanisms exist to define the context of its business model and document the mission of		
		Functional	subset of	Defining Business Context & Mission	GOV-08	the organization.	10	
		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	
GV.OC	The circumstances — mission, stakeholder expectations, dependencies, and legal, regulatory, and contractual requirements — surrounding the organization's cybersecurity risk management decisions are understood.	Functional	intersects with	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	5	
		Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5	
		Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	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 Construction (CRO)	5	
		Functional	subset of	Defining Business Context & Mission	GOV-08	Service Providers (ESPs). Mechanisms exist to define the context of its business model and document the mission of the organization.	10	
GV.0C-01	The organizational mission is understood and informs cybersecurity risk management.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: • Assumptions affecting risk assessments, risk response and risk monitoring; • Constraints affecting risk assessments, risk response and risk monitoring; • The organizational risk tolerance; and • Priorities and trade-offs considered by the oreanization for manaeine risk.	5	
		Functional	intersects with	Threat Modeling	TDA-06.2	Mechanisms exist to perform threat modelling and other secure design techniques, to ensure that threats to software and solutions are identified and accounted for.	4	
		Functional	intersects with	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	5	
GV.OC-02	Internal and external stakeholders are understood, and their needs and expectations regarding cybersecurity risk management are understood and considered.	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	
	considered.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	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 Service Providers (ESPs).	5	
		Functional	subset of	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
		Functional	intersects with	Cybersecurity & Data Protection Controls	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
GV.OC-03	Legal, regulatory, and contractual requirements regarding cybersecurity — including privacy and civil liberties obligations — are understood and	Functional	intersects with	Oversight Data Privacy Program	PRI-01	Mechanisms exist to facilitate the implementation and operation of data privacy controls.	8	
	managed.	Functional	intersects with	Third-Party Contract	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems,	5	
		Functional	intersects with	Requirements Contract Flow-Down	TPM-05.2	processes and data. Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contract sthat flow-down to applicable sub-contractors and suppliers.	5	
		Functional	intersects with	Requirements Defining Business Context & Mission	GOV-08	Mechanisms exist to define the context of its business model and document the mission of the organization.	5	
		Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
GV.OC-04	Critical objectives, capabilities, and services that external stakeholders depend on or expect from the organization are understood and communicated.	Functional	intersects with	Strategic Plan & Objectives	PRM-01.1	Mechanisms exist to establish a strategic cybersecurity & data privacy-specific business plan and set of objectives to achieve that plan.	5	
						Mechanisms exist to identify, prioritize and assess suppliers and partners of critical		
		Functional	intersects with	Third-Party Criticality Assessments	TPM-02	systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
		Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions. Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for systems,	5	
GV.0C-05	Outcomes, capabilities, and services that the organization depends on are understood and communicated.	Functional	intersects with	Software Bill of Metrials (SBOM)	TDA-04.2	applications and services that lists software packages in use, including versions and applicable licenses.	4	
		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	Assigned Cybersecurity & Data Protection Responsibilities	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	5	
		Functional	intersects with	Cybersecurity & Data Privacy Portfolio Management	PRM-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-related resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives.	5	
		Functional	intersects with	Strategic Plan & Objectives	PRM-01.1	Mechanisms exist to establish a strategic cybersecurity & data privacy-specific business	5	
	The organization's priorities, constraints, risk tolerance and appetite	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV.RM	statements, and assumptions are established, communicated, and used to support operational risk decisions.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: • Assumptions affecting risk assessments, risk response and risk monitoring; • Constraints affecting risk assessments, risk response and risk monitoring; • The organizational risk tolerance, and	8	
		Functional	intersects with	Risk Tolerance	RSK-01.3	He or ganzationarisk loterace, and Priorities and trade-offs considered by the organization for managing risk. Mechanisms exist to define organizational risk tolerance, the specified range of acceptable results.	8	
		Functional	intersects with	Risk Appetite	RSK-01.5	Mechanisms exist to define organizational risk appetite, the degree of uncertainty the organization is willing to accept in anticipation of a reward.	8	
		Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV.RM-01	Risk management objectives are established and agreed to by organizational	Functional	intersects with	Program Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	10	
	stakeholders.	Functional	intersects with	Key Risk Indicators (KRIs)	GOV-05.2	Mechanisms exist to develop, report and monitor Key Risk Indicators (KRIs) to assist senior management in performance monitoring and trend analysis of the cybersecurity &	3	
		Functional	intersects with	Risk Management Program	RSK-01	data orivacy orgenam. Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV.RM-02	Risk appetite and risk tolerance statements are established, communicated, and maintained.	Functional	intersects with	Risk Tolerance	RSK-01.3	Mechanisms exist to define organizational risk tolerance, the specified range of acceptable results.	10	
	unu mumumeu.	Functional	intersects with	Risk Appetite Cybersecurity & Data	RSK-01.5	Mechanisms exist to define organizational risk appetite, the degree of uncertainty the organization is willing to accept in anticipation of a reward. Mechanisms exist to facilitate the implementation of cybersecurity & data protection	10	
		Functional	subset of	Protection Governance Program	GOV-01	governance controls.	10	

FDE #	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
GUDMOD	Cybersecurity risk management activities and outcomes are included in		- manufacture			Mechanisms exist to coordinate cybersecurity, data protection and business alignment	(optional)	
GV.RM-03	enterprise risk management processes.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
		Functional Functional	subset of subset of	Risk Management Program	RSK-01 RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls. Mechanisms exist to facilitate the implementation of strategic, operational and tactical	10	
		Tunctional	subset of	nisk management Program	10/01	risk management controls. Mechanisms exist to identify: • Assumptions affecting risk assessments, risk response and risk monitoring;	10	
01004.04	Strategic direction that describes appropriate risk response options is	Functional	intersects with	Risk Framing	RSK-01.1	Constraints affecting risk assessments, risk response and risk monitoring; The organizational risk tolerance; and Priorities and trade-offs considered by the oreanization for managing risk.	5	
GV.RM-04	established and communicated.	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	5	
		Functional	superset of	Risk Response	RSK-06.1	Mechanisms exist to respond to findings from cybersecurity & data privacy assessments, incidents and audits to ensure proper remediation has been performed.	5	
		Functional	intersects with	Compensating Countermeasures Assigned Cybersecurity &	RSK-06.2	Mechanisms exist to identify and implement compensating countermeasures to reduce risk and exposure to threats. Mechanisms exist to assign one or more qualified individuals with the mission and	5	
		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	
	Lines of communication across the organization are established for	Functional	intersects with	Stakeholder Accountability Structure	GOV-04.1	Mechanisms exist to enforce an accountability structure so that appropriate teams and individuals are empowered, responsible and trained for mapping, measuring and managing data and technology-related risks.	5	
GV.RM-05	cybersecurity risks, including risks from suppliers and other third parties.	Functional	intersects with	Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity responsibilities for all personnel.	5	
		Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	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 Service Providers (ESPs).	5	
		Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
						Mechanisms exist to identify: • Assumptions affecting risk assessments, risk response and risk monitoring;		
GV.RM-06	A standardized method for calculating, documenting, categorizing, and prioritizing cybersecurity risks is established and communicated.	Functional	intersects with	Risk Framing	RSK-01.1	Constraints affecting risk assessments, risk response and risk monitoring; The organizational risk tolerance; and Priorities and trade-offs considered by the organization for managing risk. Mechanisms exist to conduct recurring assessments of risk that includes the likelihood	5	
		Functional	intersects with	Risk Assessment	RSK-04	and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
		Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	5	
GV.RM-07	Strategic opportunities (i.e., positive risks) are characterized and are included in organizational cybersecurity risk discussions.	Functional	subset of	Risk Framing	RSK-01.1	Mechanisms exist to identify: • Assumptions affecting risk assessments, risk response and risk monitoring; • Onstraints affecting risk assessments, risk response and risk monitoring; • The organizational risk tolerance; and • Priorities, benefits and trade-offs considered by the organization for managing risk.	10	
	Cybersecurity roles, responsibilities, and authorities to foster accountability,	Functional	intersects with	Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity responsibilities for all personnel.	5	
GV.RR		Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	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	8	
		Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Service Providers (ESPs). Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
		Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.		
		Functional	intersects with	Assigned Cybersecurity & Data Protection Responsibilities	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	5	
	Organizational leadership is responsible and accountable for cybersecurity	Functional	intersects with	Stakeholder Accountability Structure	GOV-04.1	Mechanisms exist to enforce an accountability structure so that appropriate teams and individuals are empowered, responsible and trained for mapping, measuring and managing data and technology-related risks.	5	
GV.RR-01	risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
		Functional	intersects with	Risk Tolerance	RSK-01.3	Mechanisms exist to define organizational risk tolerance, the specified range of acceptable results.	5	
		Functional	intersects with	Risk Threshold	RSK-01.4	Mechanisms exist to define organizational risk threshold, the level of risk exposure above which risks are addressed and below which risks may be accepted.	5	
		Functional	intersects with	Risk Appetite	RSK-01.5	Mechanisms exist to define organizational risk appetite, the degree of uncertainty the organization is willing to accept in anticipation of a reward.	5	
		Functional	intersects with	Risk Culture	RSK-12	Mechanisms exist to ensure teams are committed to a culture that considers and communicates technology-related risk.	5	
		Functional	intersects with	Assigned Cybersecurity & Data Protection	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an	5	
		Functional	intersects with	Responsibilities Position Categorization	HRS-02	enterprise-wide cybersecurity & data protection program. Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling those positions.		
GV.RR-02	Roles, responsibilities, and authorities related to cybersecurity risk management are established, communicated, understood, and enforced.	Functional	intersects with	Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity responsibilities for all personnel.	5	
		Functional	intersects with	Responsible, Accountable,	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment	5	
		, ancional	milerseus With	Supportive, Consulted & Informed (RASCI) Matrix Cybersecurity & Data	1 F WI-05.4	for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs). Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-related	3	
		Functional	intersects with	Privacy Portfolio Management Cybersecurity & Data	PRM-01	resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives. Mechanisms exist to address all capital planning and investment requests, including the	5	
GV.RR-03	Adequate resources are allocated commensurate with the cybersecurity risk strategy, roles, responsibilities, and policies.	Functional	intersects with	Privacy Resource Management	PRM-02	resources needed to implement the cybersecurity & data privacy programs and document all exceptions to this requirement. Mechanisms exist to identify and allocate resources for management, operational,	5	
		Functional	equal	Allocation of Resources	PRM-03	technical and data privacy requirements within business process planning for projects / initiatives.	10	
GV.RR-04	Cybersecurity is included in human resources practices.	Functional	equal	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls. Mechanisms exist to communicate with users about their roles and responsibilities to	10	
		Functional	intersects with	User Awareness Publishing Cybersecurity &	HRS-03.1	maintain a safe and secure working environment. Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.		
GV.PO	Organizational cybersecurity policy is established, communicated, and enforced.	Functional	subset of	Data Protection Documentation Policy Familiarization &	GOV-02	Mechanisms exist to ensure personnel receive recurring familiarization with the	10	
	enforced.	Functional	intersects with intersects with	Acknowledgement Personnel Sanctions	HRS-05.7 HRS-07	organization's cybersecurity & data privacy policies and provide acknowledgement. Mechanisms exist to sanction personnel failing to comply with established security	5	
				Publishing Cybersecurity &		policies, standards and procedures. Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.		
	Policy for managing cyhorcorurity ricks is ostablishod based on organizational	Functional	subset of	Data Protection Documentation	GOV-02	prononny annun un un processo 23.	10	

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GV.PO-01	context, cybersecurity strategy, and priorities and is communicated and			Policy Familiarization &	100.05 -	Mechanisms exist to ensure personnel receive recurring familiarization with the	(optional)	
	enforced.	Functional	intersects with	Acknowledgement Personnel Sanctions	HRS-05.7 HRS-07	organization's cybersecurity & data privacy policies and provide acknowledgement. Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
		Functional	intersects with	Periodic Review & Update of Cybersecurity & Data	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure	8	
GV.PO-02	Policy for managing cybersecurity risks is reviewed, updated, communicated, - and enforced to reflect changes in requirements, threats, technology, and	Functional	intersects with	Protection Program Policy Familiarization &	HRS-05.7	their continuing suitability, adequacy and effectiveness. Mechanisms exist to ensure personnel receive recurring familiarization with the	8	
	organizational mission.			Acknowledgement		organization's cybersecurity & data privacy policies and provide acknowledgement. Mechanisms exist to sanction personnel failing to comply with established security		
		Functional	intersects with	Personnel Sanctions	HRS-07	policies, standards and procedures. Mechanisms exist to coordinate cybersecurity, data protection and business alignment	8	
		Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to provide governance oversight reporting and recommendations to	5	
GV.OV	Results of organization-wide cybersecurity risk management activities and performance are used to inform, improve, and adjust the risk management	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
	strategy.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	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	
		Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
		Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV.OV-01	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	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	
		Functional	intersects with	Defining Business Context & Mission	GOV-08	Mechanisms exist to define the context of its business model and document the mission of the organization	5	
		Functional	intersects with	& Mission Strategic Plan & Objectives	PRM-01.1	the organization. Mechanisms exist to establish a strategic cybersecurity & data privacy-specific business plan and set of objectives to achieve that plan.	5	
		Functional	subset of	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	10	
GV.OV-02	The cybersecurity risk management strategy is reviewed and adjusted to ensure coverage of organizational requirements and risks.	Functional	subset of	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.	10	
		Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
		Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV.OV-03	Organizational cybersecurity risk management performance is evaluated and reviewed for adjustments needed.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
		Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
		Functional	intersects with	Risk Management Program Cybersecurity & Data	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls. Mechanisms exist to facilitate the implementation of cybersecurity & data protection	5	
		Functional	subset of	Protection Governance Program	GOV-01	wechanisms exist to radiitate the implementation of cybersecurity & data protection governance controls. Mechanisms exist to coordinate cybersecurity, data protection and business alignment	10	
		Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
		Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV.SC	Cyber supply chain risk management processes are identified, established,	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
	managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
		Functional	equal	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 monitorine performance areainst those plans.	10	
		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	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain.	8	
		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	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV.5C-01	A cybersecurity supply chain risk management program, strategy, objectives, policies, and processes are established and agreed to by organizational stakeholders.	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	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
		Functional	equal	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 service, including documenting selected mitigating actions and monitoring performance against those plans.	10	
		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,	8	
GV.SC-02	Cybersecurity roles and responsibilities for suppliers, customers, and partners are established, communicated, and coordinated internally and externally.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	processes and data. Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	8	
	extensity.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	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 Sensing Ponulaet (ESPE)	8	
	J			1	I	Service Providers (ESPs).	I	

FDE #	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional)
		Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	(opt(onti)) 10
		Functional	intersects with	Program Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5
	Cybersecurity supply chain risk management is integrated into cybersecurity	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
GV.5C-03	and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Defining Business Context & Mission	GOV-08	Mechanisms exist to define the context of its business model and document the mission of the organization.	5
		Functional	intersects with	Define Control Objectives	GOV-09	Mechanisms exist to establish control objectives as the basis for the selection, implementation and management of the organization's internal control system.	5
		Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	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 monitorine performance aeainst those plans.	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. Mechanisms exist to identify and assess the security of technology assets that support	5
		Functional	intersects with	Asset-Service Dependencies Third-Party Management	AST-01.1 TPM-01	more than one critical business function. Mechanisms exist to facilitate the implementation of third-party management controls.	5
GV.SC-04	Suppliers are known and prioritized by criticality.	Functional	intersects with	Third-Party Inventories	TPM-01	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.	8
		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.	8
		Functional	intersects with	Statutory, Regulatory &	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5
		Functional	intersects with	Contractual Compliance Compliance Scope	CPL-01.2	Mechanisms exist to document and validate the scope of cybersecurity & data privacy controls that are determined to meet statutory, regulatory and/or contractual compliance	5
		Functional	intersects with	Adequate Security for Sensitive / Regulated Data	IAO-03.2	obligations. Mechanisms exist to protect sensitive / regulated data that is collected, developed, received, transmitted, used or stored in support of the performance of a contract.	5
	Requirements to address cybersecurity risks in supply chains are established,	Functional	intersects with	In Support of Contracts Data Privacy Requirements for Contractors & Service	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
GV.SC-05	prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Providers Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	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 monitorine performance arainst those plans.	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	intersects with	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5
		Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5
		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. Mechanisms exist to utilize security safeguards to limit harm from potential adversaries	5
		Functional	intersects with	Limit Potential Harm Processes To Address	TPM-03.2	who identify and target the organization's supply chain. Mechanisms exist to address identified weaknesses or deficiencies in the security of the	5
		Functional	intersects with	Weaknesses or Deficiencies	TPM-03.3 TPM-04	supply chain Mechanisms exist to mitigate the risks associated with third-party access to the	5
		Functional	intersects with	Third-Party Services Third-Party Risk	TPM-04	organization's systems and data. Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of	5
		Functional	intersects with	Assessments & Approvals Conflict of Interests	TPM-04.1	technology-related services. Mechanisms exist to ensure that the interests of external service providers are consistent	5
		Functional	intersects with	Third-Party Processing, Storage and Service		with and reflect organizational interests. Mechanisms exist to restrict the location of information processing/storage based on business requirements.	5
		Functional	intersects with	Locations 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,	5
GV.SC-06	Planning and due diligence are performed to reduce risks before entering into formal supplier or other third-party relationships.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	processes and data. Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5
		Functional	intersects with	Third-Party Authentication Practices	TPM-05.3	Mechanisms exist to ensure External Service Providers (ESPs) use unique authentication factors for each of its customers.	5
		Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	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 Service Providers (ESPs).	5
		Functional	intersects with	Third-Party Scope Review	TPM-05.5	Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments accurately reflect current business practices, compliance obligations, technologies and stakeholders.	5
		Functional	intersects with	First-Party Declaration (1PD)	TPM-05.6	Mechanisms exist to obtain a First-Party Declaration (1PD) from applicable External Service Providers (ESPs) that provides assurance of compliance with specified statutory, regulatory and contractual obligations for cybersecurity & data privacy controls, including any flow-down requirements to subcontractors.	5
		Functional	intersects with	Break Clauses	TPM-05.7	Mechanisms exist to include "break clauses" within contracts for failure to meet contract criteria for cybersecurity and/or data privacy controls.	5
		Functional	intersects with	Third-Party Personnel Security	TPM-06	Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.	5
		Functional	intersects with	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	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5
		Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESP3) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical	5
		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

FDE #	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	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain.	5	
GV_SC-07	The risks posed by a supplier, their products and services, and other third parties are understood, recorded, prioritized, assessed, responded to, and	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	
	monitored over the course of the relationship.	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	
		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	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	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	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).	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	
		Functional	intersects with	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	5	
		Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery. Mechanisms exist to coordinate with approved third-parties to achieve a cross-	5	
		Functional	intersects with	Correlation with External Organizations	IRO-02.5	organization perspective on incident awareness and more effective incident responses. Mechanisms exist to facilitate the implementation of third-party management controls.	5	
GV.SC-08	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to maintain a current, accurate and complete list of External Service	5	
		Functional	intersects with	Third-Party Inventories	TPM-01.1	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 identify, prioritize and assess suppliers and partners of critical	5	
		Functional	intersects with	Third-Party Criticality Assessments	TPM-02	systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
		Functional	intersects with	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	Managing Changes To Third Party Services	TPM-10	Mechanisms exist to control changes to services by suppliers, taking into account the criticality of business information, systems and processes that are in scope by the third- party.	5	
		Functional	intersects with	Third-Party Incident Response & Recovery Capabilities	TPM-11	Mechanisms exist to ensure response/recovery planning and testing are conducted with critical suppliers/providers.	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	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
		Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
		Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
GV.SC-09	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored	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	
	throughout the technology product and service life cycle.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	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 monitoring performance against those plans.	5	
		Functional	intersects with	Supply Chain Risk Assessment	RSK-09.1	Mechanisms exist to periodically assess supply chain risks associated with systems, system components and services.	5	
		Functional	intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
		Functional	intersects with	Product Management	TDA-01.1	Mechanisms exist to design and implement product management processes to update products, including systems, software and services, to improve functionality and correct security deficiencies.	5	
		Functional	subset of	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 mechanism actions and services and the second sec	10	
GV.SC-10	Cybersecurity supply chain risk management plans include provisions for activities that occur after the conclusion of a partnership or service	Functional	intersects with	Third-Party Management	TPM-01	monitoring performance against those plans. Mechanisms exist to facilitate the implementation of third-party management controls.	5	
67.50-10	activities that occur after the conclusion of a partnership or service agreement.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5	
		Functional	intersects with	Third-Party Authentication Practices	TPM-05.3	Mechanisms exist to ensure External Service Providers (ESPs) use unique authentication factors for each of its customers.	5	
		Functional	subset of	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	10	
		Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	privacy and business executives, which meets tormainy and on a regular bass. Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
		Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
		Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: Assumptions affecting risk assessments, risk response and risk monitoring; • Constraints affecting risk assessments, risk response and risk monitoring; • The organizational risk tolerance; and • Priorities, benefits and trade-offs considered by the organization for managing risk.	5	
ID	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Identification	RSK-03	Mechanisms exist to identify and document risks, both internal and external.	5	
		Functional	intersects with	Risk Catalog	RSK-03.1	Mechanisms exist to develop and keep current a catalog of applicable risks associated with the organization's business operations and technologies in use.	5	

FDE #	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	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.	(optional) 5	
		Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of	5	
		Functional	intersects with	Risk Ranking	RSK-05	risks. Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities that is based on industry-recognized practices.	5	
		Functional	intersects with	Supply Chain Risk	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	5	
				Management (SCRM) Plan		components and services, including documenting selected mitigating actions and monitoring performance against those plans. Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and		
		Functional	subset of	Asset Governance	AST-01	manage asset management controls.	10	
		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	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	5	
		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 accountability; and - Is available for review and audit by designated organizational personnel.	5	
		Functional	intersects with	Asset Ownership Assignment	AST-03	Mechanisms exist to ensure a saset ownership responsibilities are a ssigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.	5	
						Mechanisms exist to include capturing the name, position and/or role of individuals responsible/accountable for administering assets as part of the technology asset		
		Functional	intersects with	Accountability Information	AST-03.1	inventory process.	5	
		Functional	intersects with	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	5	
ID.AM	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational	Functional	intersects with	Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity responsibilities for all personnel.	5	
	objectives and the organization's risk strategy.	Functional	intersects with	Terms of Employment	HRS-05	Mechanisms exist to require all employees and contractors to apply cybersecurity & data privacy principles in their daily work.	5	
		Functional	intersects with	Rules of Behavior	HRS-05.1	Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.	5	
		Functional	intersects with	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	5	
		Functional	intersects with	Risk-Based Security Categorization	RSK-02	Mechanisms exist to categorize systems and data in accordance with applicable local, state and Federal laws that: Document the security categorization results (including supporting rationale) in the security plan for systems; and = finsure the security categorization decision is reviewed and approved by the asset pwner.	5	
		Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
		Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (SSP) that Can potentially impact the Confidentiality, Integrity, Availability and/or Safety (Cat of the organization's systems, applications, services and data.	5	
						Mechanisms exist to document and maintain a Responsible, Accountable, Supportive,		
		Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
		Functional	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	
ID.AM-01	Inventories of hardware managed by the organization are maintained.	Functional	subset of	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 arounairy deemed necessary for tracking and reporting; - Includes organization-defined information deemed necessary to a chieve effective operperts, accuratellity; and - Is available for review and audit by designated organizational personnel.	10	
		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.	5	
ID.AM-02	Inventories of software, services, and systems managed by the organization are maintained.	Functional	subset of	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 of thware products, including business justification details; * Is at the level of granularity deemed necessary for tracking and reporting; * Includes organization-defined information deemed necessary to a chieve effective property accountability; and * Is available for review and audit by designated organizational personnel.	10	
		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.	5	
		Functional	intersects with	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	Mechanisms exist to maintain network architecture diagrams that: • Contain sufficient detail to assess the security of the network's architecture; • Reflect the current architecture of the network environment; and • Document all sensitive/regulated data flows.	5	
ID.AM-03	Representations of the organization's authorized network communication and internal and external network data flows are maintained.	Functional	intersects with	Control Applicability Boundary Graphical Representation	AST-04.2	Mechanisms exist to ensure control applicability is appropriately-determined for systems, applications, services and third parties by graphically representing applicable boundaries.	5	

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		Functional	intersects with	Geographic Location of	DCH-19	Mechanisms exist to inventory, document and maintain data flows for data that is resident (permanently or temporarily) within a service's geographically distributed	(optional) 5	
				Data		applications (physical and virtual), infrastructure, systems components and/or shared with other third-parties. Mechanisms exist to maintain a current, accurate and complete list of External Service		
ID.AM-04	Inventories of services provided by suppliers are maintained.	Functional	equal	Third-Party Inventories	TPM-01.1	Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	10	
		Functional	intersects with	Asset Scope Classification	AST-04.1	Mechanisms exist to determine cybersecurity & data privacy control applicability by identifying, assigning and documenting the appropriate asset scope categorization for all systems, applications, services and personnel (internal and third-parties).	5	
ID.AM-05	Assets are prioritized based on classification, criticality, resources, and impact on the mission.	Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
	impact on the mission.	Functional	intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical	5	
		Functional	intersects with	Third-Party Criticality Assessments	TPM-02	systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
		Functional	intersects with	Media Storage	DCH-06	Mechanisms exist to: • 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 equinemnt: technicus and orocedures.	5	
		Functional	intersects with	Sensitive Data Inventories	DCH-06.2	Mechanisms exist to maintain inventory logs of all sensitive media and conduct sensitive media inventories at least annually. Mechanisms exist to appreciable consumption three data courses for constitue/constant.	5	
ID.AM-07	Inventories of data and corresponding metadata for designated data types	Functional	intersects with	Periodic Scans for Sensitive Data	DCH-06.3	Mechanisms exist to periodically scan unstructured data sources for sensitive/regulated data or data requiring special protection measures by statutory, regulatory or contractual obligations. Mechanisms exist to:	5	
	are maintained.	Functional	intersects with	Personal Data Retention & Disposal	PRI-05	 Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law; > Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and > segnization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records). 	5	
		Functional	intersects with	Inventory of Personal Data	PRI-05.5	Mechanisms exist to establish, maintain and update an inventory that contains a listing of all programs and systems identified as collecting, using, maintaining, or sharing Personal	5	
		Functional	subset of	Asset Governance	AST-01	Data (PD). Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	10	
		Functional	intersects with	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	5	
		Functional	intersects with	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	5	
ID.AM-08	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	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	intersects with	Predictable Failure Analysis	SEA-07	Mechanisms exist to determine the Mean Time to Failure (MTTF) for system components in specific environments of operation.	5	
		Functional	intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
		Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls. Mechanisms exist to coordinate cybersecurity, data protection and business alignment	10	
		Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
ID.RA	The cybersecurity risk to the organization, assets, and individuals is understood by the organization.	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	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	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 monitorine performance areainst those plans.	5	
		Functional	intersects with	Information Assurance (IA) Operations	IAO-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy assessment and authorization controls.	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	5	
		Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	requirements. Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known	5	
ID.RA-01	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Risk Assessment	RSK-04	vulnerabilities. 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	
15.10401	and an appeal of the network of voltables, and recorded.	Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	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 durine the security testime and evaluation process: and	5	
						Document the results of the security testing/evaluation and flaw remediation processes.		
		Functional	subset of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
		Functional	intersects with	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5	
						Mechanisms exist to establish contact with selected groups and associations within the cybersecurity & data privacy communities to: + Sacilitate ongoing cybersecurity & data privacy education and training for		
ID.RA-02	Cyber threat intelligence is received from information sharing forums and	Functional	intersects with	Contacts With Groups & Associations	GOV-07	organizational personnel; • Maintain currency with recommended cybersecurity & data privacy practices, techniques and technologies; and	5	
	sources.					 Share current cybersecurity and/or data privacy-related information including threats, vulnerabilities and incidents. 		
		Functional	intersects with	Threat Intelligence Feeds	THR-03	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	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 hunting, response and recovery activities.	10	
		Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
		Functional	intersects with	Threat Intelligence Feeds	THR-03	Mechanisms exist to maintain situational awareness of evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of oreventative and comensating controls.	5	
ID.RA-03	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Insider Threat Program	THR-04	Mechanisms exist to implement an insider threat program that includes a cross-discipline insider threat incident handling team.	5	
		Functional	intersects with	Insider Threat Awareness	THR-05	Mechanisms exist to utilize security awareness training on recognizing and reporting potential indicators of insider threat.	5	

FDE #	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	Threat Hunting	THR-07	Mechanisms exist to perform cyber threat hunting that uses Indicators of Compromise (IoC) to detect, track and disrupt threats that evade existing security controls.	(optional) 5	
						(IOC) to detect, track and disrupt threats that evade existing security controls. Mechanisms exist to develop and keep current a catalog of applicable internal and		
		Functional	intersects with	Threat Catalog	THR-09	external threats to the organization, both natural and manmade. Mechanisms exist to develop and keep current a catalog of applicable internal and	5	
ID.RA-04	Potential impacts and likelihoods of threats exploiting vulnerabilities are identified and recorded.	Functional	intersects with	Threat Catalog	THR-09 THR-10	external threats to the organization, both natural and manmade. Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and	5	
		Functional	intersects with	Threat Analysis	IHK-10	likelihood(s) of applicable internal and external threats. Mechanisms exist to identify:	2	
		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; 	5	
						The organizational risk tolerance; and Priorities, benefits and trade-offs considered by the organization for managing risk.	_	
		Functional	intersects with	Impact-Level Prioritization	RSK-02.1	Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions.	5	
						Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption,		
	Threats, vulnerabilities, likelihoods, and impacts are used to understand	Functional	intersects with	Risk Assessment	RSK-04	modification or destruction of the organization's systems and data.	5	
ID.RA-05	inherent risk and inform risk response prioritization.	Functional	intersects with	Risk Ranking	RSK-05	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities that is based on industry-recognized practices.	5	
		Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	5	
		Functional	intersects with	Risk Response	RSK-06.1	Mechanisms exist to respond to findings from cybersecurity & data privacy assessments, incidents and audits to ensure proper remediation has been performed.	5	
		Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
		Functional	intersects with	Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
		Functional	intersects with	Threat Analysis	THR-10	Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.	5	
						Mechanisms exist to identify: • Assumptions affecting risk assessments, risk response and risk monitoring;		
		Functional	intersects with	Risk Framing	RSK-01.1	Constraints affecting risk assessments, risk response and risk monitoring; The organizational risk tolerance; and	5	
						 Priorities, benefits and trade-offs considered by the organization for managing risk. Mechanisms exist to prioritize the impact level for systems, applications and/or services 		
ID.RA-06	Risk responses are chosen, prioritized, planned, tracked, and communicated.	Functional	intersects with	Impact-Level Prioritization	RSK-02.1	to prevent potential disruptions. Mechanisms exist to identify and assign a risk ranking to newly discovered security	5	
		Functional	intersects with	Risk Ranking	RSK-05 RSK-06	vulnerabilities that is based on industry-recognized practices. Mechanisms exist to remediate risks to an acceptable level.	5	
		Functional		Risk Remediation		Mechanisms exist to respond to findings from cybersecurity & data privacy assessments,	5	
		Functional	intersects with	Risk Response	RSK-06.1	incidents and audits to ensure proper remediation has been performed.	5	
		Functional	intersects with	Compensating Countermeasures	RSK-06.2	Mechanisms exist to identify and implement compensating countermeasures to reduce risk and exposure to threats.	5	
		Functional	subset of	Change Management Program Configuration Change	CHG-01	Mechanisms exist to facilitate the implementation of a change management program. Mechanisms exist to govern the technical configuration change control processes.	10	
		Functional	intersects with	Control	CHG-02	Machanizer aviet to prohibit upputberized changes, upless organization approved change	5	
	Channel and a second second for the interval	Functional	intersects with	Prohibition Of Changes	CHG-02.1	requests are received. Mechanisms exist to appropriately test and document proposed changes in a non-	5	
ID.RA-07	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Test, Validate & Document Changes	CHG-02.2	production environment before changes are implemented in a production environment.	5	
		Functional	intersects with	Security Impact Analysis for Changes	CHG-03	Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.	5	
		Functional	intersects with	Access Restriction For Change	CHG-04	Mechanisms exist to enforce configuration restrictions in an effort to restrict the ability of users to conduct unauthorized changes.	5	
		Functional	intersects with	Exception Management	GOV-02.1	Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and recorded. Mechanisms exist to implement a threat intelligence program that includes a cross-	5	
		Functional	intersects with	Threat Intelligence Program	THR-01	organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat	5	
		Functional	intersects with	Indicators of Exposure (IOE)	THR-02	huntine. response and recovery activities. Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential	5	
						attack vectors that attackers could use to attack the organization. Mechanisms exist to maintain situational awareness of evolving threats by leveraging the		
ID.RA-08	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Threat Intelligence Feeds Vulnerability & Patch	THR-03	knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls. Mechanisms exist to facilitate the implementation and monitoring of vulnerability	5	
		Functional	intersects with	Management Program (VPMP)	VPM-01	management controls.	5	
		Functional	intersects with	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
		Functional	intersects with	Vulnerability Ranking	VPM-03	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.	5	
		Functional	intersects with	Tamper Protection	AST-15	Mechanisms exist to verify logical configuration settings and the physical integrity of	5	
		Functional	intersects with	Roots of Trust Protection	AST-18	critical technology assets throughout their lifecycle. Mechanisms exist to provision and protect the confidentiality, integrity and authenticity of product sumplier keys and data that can be used as a "roots of trust" basis for integrity.	5	
		, uncould	mus seus With		,-31-10	of product supplier keys and data that can be used as a "roots of trust" basis for integrity verification. Mechanisms exist to facilitate the implementation of tailored development and	,	
		Functional	intersects with	Technology Development & Acquisition	TDA-01	acquisition strategies, contract tools and procurement methods to meet unique business needs.	5	
ID.RA-09	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	intersects with	Integrity Mechanisms for Software / Firmware	TDA-01.2	Mechanisms exist to utilize integrity validation mechanisms for security updates.	5	
		Functional	intersects with	Updates Developer Configuration	TDA-14	Mechanisms exist to require system developers and integrators to perform configuration	5	
			intersects with	Management Software / Firmware		management during system design, development, implementation and operation. Mechanisms exist to require developer of systems, system components or services to		
		Functional	intersects with	Integrity Verification Hardware Integrity	TDA-14.1	enable integrity verification of software and firmware components.	5	
		Functional	intersects with	Verification	TDA-14.2	enable integrity verification of hardware components. Mechanisms exist to maintain a current, accurate and complete list of External Service	5	
		Functional	intersects with	Third-Party Inventories	TPM-01.1	Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
ID.RA-10	Critical suppliers are assessed prior to acquisition.			Third-Party Criticality		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		
	his sequences	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
		Functional	intersects with	Third-Party Risk	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
				Assessments & Approvals		Mechanisms exist to facilitate the implementation of operational security controls.		
		Functional	intersects with	Operations Security	OPS-01		5	
		Functional	intersects with	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.	5	
ID.IM	Improvements to organizational cybersecurity risk management processes, procedures and activities are identified across all CSF Functions.	Functional	rubr-t-f		RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical	10	
		runctional	subset of	Risk Management Program	n5K-01	risk management controls. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated	10	
		Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a pian for supply Chain Kisk Management (SCKM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and	5	
						monitoring performance against those plans. Mechanisms exist to ensure managers regularly review the processes and documented		
		Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5	
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FDE #	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	Functional Review Of Cybersecurity & Data	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	(optional) 5	
		Functional	intersects with	Protection Controls Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy Mechanisms exist to formally assess the cybersecurity & data privacy applications and existences through information Assurance Porgram (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	Security Assessment Report (SAR)	IAO-02.4	Mechanisms exist to produce a Security Assessment Report (SAR) at the conclusion of a security assessment to certify the results of the assessment and assist with any remediation actions.	5	
ID.IM-01	Improvements are identified from evaluations.	Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	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: - Oreate and implement a Security Test and Evaluation (ST&E) plan; - Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and - Document the results of the security testing/evaluation and flaw remediation processes.	5	
		Functional	intersects with	Continuous Monitoring Plan	TDA-09.1	Mechanisms exist to require the developers of systems, system components or services to produce a plan for the continuous monitoring of cybersecurity & data privacy control	5	
		Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	effectiveness. Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
		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	5	
		Functional	intersects with	Contingency Plan Root Cause Analysis (RCA) &	BCD-05	privacy controls. Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.	5	
		Functional	intersects with	Lessons Learned 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	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	
		Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the opherscurity & 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	5	
		Functional	intersects with	Security Assessment Report (SAR)	IAO-02.4	requirements. Mechanisms exist to produce a Security Assessment Report (SAR) at the conclusion of a security assessment to certify the results of the assessment and assist with any remediation actions.	5	
ID.IM-02	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	5	
		Functional	intersects with	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	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	5	
		Functional	intersects with	Continuous Monitoring Plan	TDA-09.1	nnnexesses Mechanisms exist to require the developers of systems, system components or services to produce a plan for the continuous monitoring of cybersecurity & data privacy control	5	
		Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	effectiveness. Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
		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	5	
		Functional	intersects with	Measures of Performance	GOV-05	privacy controls. Mechanisms exist to develop, report and monitor cybersecurity & data privacy program messures of performance.	5	
ID.IM-03	Improvements are identified from execution of operational processes, procedures, and activities.	Functional	intersects with	Contingency Plan Root Cause Analysis (RCA) & Lessons Learned	BCD-05	Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.	5	
		Functional	intersects with	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents. Mechanisms exist to facilitate the implementation of contingency planning controls to	5	
		Functional	intersects with	Business Continuity Management System (BCMS)	BCD-01	help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	5	
ID.IM-04	Incident response plans and other cybersecurity plans that affect operations	Functional	intersects with	Contingency Planning & Updates	BCD-06	Mechanisms exist to keep contingency plans current with business needs, technology changes and feedback from contingency plan testing activities.	5	
	are established, communicated, maintained, and improved.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
		Functional	intersects with	IRP Update	IRO-04.2	Mechanisms exist to regularly review and modify incident response practices to incorporate lessons learned, business process changes and industry developments, as necessarv.	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	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
PR	Safeguards to manage the organization's cybersecurity risks are used.	Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls. Mechanisms exist to facilitate the implementation of strategic, operational and tactical	5	
		Functional	intersects with	Risk Management Program Supply Chain Risk Management (SCRM) Plan	RSK-01 RSK-09	risk management controls. 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	Identity & Access Management (IAM)	IAC-01	monitoring performance against those plans. Mechanisms exist to facilitate the implementation of identification and access management controls.	5	
		Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	5	
PR.AA	Access to physical and logical assets is limited to authorized users, services, and hardware and managed commensurate with the assessed risk of unauthorized access	Functional	intersects with	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	5	
	unauthorized access.	Functional	intersects with	Physical Access Authorizations	PES-02	Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).	5	
		Functional	intersects with	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	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
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FDE #	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	Identification & Authentication for Non-	IAC-03	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) third-party users and processes that provide services to the organization.	(optional) 5	
PR.AA-01	Identities and credentials for authorized users, services, and hardware are managed by the organization.	Functional	intersects with	Organizational Users Identification &	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is	5	
	-			Authentication for Devices Identification &		crystographically-based and realay resistant. Mechanisms exist to identify and authenticate third-party systems and services.		
	Identities are proofed and bound to credentials based on the context of	Functional	intersects with	Authentication for Third Party Systems & Services Identity Proofing (Identity	IAC-05	Mechanisms exist to verify the identity of a user before issuing authenticators or	5	
PR.AA-02	interactions.	Functional	equal	Verification) Authenticate, Authorize	IAC-28	modifying access permissions. Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA)	10	
		Functional	subset of	and Audit (AAA) Identification &	IAC-01.2	solutions, both on-premises and those hosted by an External Service Provider (ESP). Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	10	
		Functional	intersects with	Authentication for Organizational Users Identification &	IAC-02	(AAA) organizational users and processes acting on behalf of organizational users. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	5	
PR.AA-03	Users, services, and hardware are authenticated.	Functional	intersects with	Authentication for Non- Organizational Users	IAC-03	(AAA) third-party users and processes that provide services to the organization.	5	
		Functional	intersects with	Identification & Authentication for Devices	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is crvutoeraphically- based and reolay resistant.	5	
		Functional	intersects with	Identification & Authentication for Third	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5	
		Functional	intersects with	Party Systems & Services Authenticate, Authorize	IAC-01.2	Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	5	
PR.AA-04	Identity assertions are protected, conveyed, and verified.	Functional	intersects with	and Audit (AAA) Replay-Resistant Authentication	IAC-02.2	Automated mechanisms exist to employ replay-resistant authentication.	5	
		Functional	intersects with	Acceptance of External Authenticators	IAC-03.5	Mechanisms exist to restrict the use of external authenticators to those that are National Institute of Standards and Technology (NIST)-compliant and maintain a list of accepted	5	
		Functional	intersects with	Position Categorization	HRS-02	external authenticators. Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling those positions.	5	
						Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent		
		Functional	intersects with	Separation of Duties (SoD)	HRS-11	potential inappropriate activity without collusion. Mechanisms exist to facilitate the implementation of identification and access	5	
		Functional	subset of	Identity & Access Management (IAM)	IAC-01	management controls.	10	
		Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	5	
	Access permissions, entitlements, and authorizations are defined in a policy,	Functional	intersects with	Identification & Authentication for	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
PR.AA-05	managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Organizational Users Identification & Authentication for Non-	IAC-03	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) third-party users and processes that provide services to the organization.	5	
		Functional	intersects with	Organizational Users Identification &	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit	5	
				Authentication for Devices Identification &		(AAA) devices before establishing a connection using bidirectional authentication that is cryptographically-based and replay resistant. Mechanisms exist to identify and authenticate third-party systems and services.		
		Functional	intersects with	Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and	5	
		Functional	intersects with	Role-Based Access Control (RBAC)	IAC-08	resources that applies need-to-know and fine-grained access control for sensitive/regulated data access.	5	
		Functional	intersects with	Least Privilege	IAC-21	Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
		Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
		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	5	
PR.AA-06	Physical access to assets is managed, monitored, and enforced commensurate with risk.	Functional	intersects with	Role-Based Physical Access	PES-02.1	officially designated as publicly accessible). Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.	5	
		Functional	intersects with	Physical Access Control	PES-03	Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points) to facilities (excluding	5	
				Cybersecurity & Data		those areas within the facility officially designated as publicly accessible). Mechanisms exist to facilitate the implementation of security workforce development and		
		Functional	subset of	Privacy-Minded Workforce	SAT-01	awareness controls. Mechanisms exist to provide all employees and contractors appropriate awareness	10	
PR.AT	The organization's personnel are provided with cybersecurity awareness and training so that they can perform their cybersecurity-related tasks.	Functional	intersects with	Cybersecurity & Data Privacy Awareness Training	SAT-02	education and training that is relevant for their job function.	5	
		Functional	intersects with	Role-Based Cybersecurity &	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	5	
				Data Privacy Training		Annually thereafter.		
		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	
PR.AT-01	Personnel are provided with awareness and training so that they possess the knowledge and skills to perform general tasks with cybersecurity risks in	Functional	intersects with	Role-Based Cybersecurity &	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	5	
	mind.	, one donar	and seed with	Data Privacy Training	341-03	Annually thereafter.	,	
		Functional	intersects with	Cyber Threat Environment	SAT-03.6	Mechanisms exist to provide role-based cybersecurity & data privacy awareness training that is current and relevant to the cyber threats that users might encounter in day-to-day business operations.	5	
		Europeiro -	intersects with	Role-Based Cybersecurity &	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: • Before authorizing access to the system or performing assigned duties;	5	
		Functional	intersects with	Data Privacy Training	5A1-03	When required by system changes; and Annually thereafter.	5	
PR.AT-02	Individuals in specialized roles are provided with awareness and training so that they possess the knowledge and skills to perform relevant tasks with	Functional	intersects with	Privileged Users	SAT-03.5	Mechanisms exist to provide specific training for privileged users to ensure privileged users understand their unique roles and responsibilities	5	
	cybersecurity risks in mind.	Functional	intersects with	Cyber Threat Environment	SAT-03.6		5	
				Continuing Professional Education (CPE) -		business operations. Mechanisms exist to ensure cybersecurity & data privacy personnel receive Continuing Professional Education (CPE) training to maintain currency and proficiency with industry-		
		Functional	intersects with	Cybersecurity & Data Privacy Personnel	SAT-03.7	recognized secure practices that are pertinent to their assigned roles and responsibilities.	5	
		Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
		Functional	intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	
		Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
	Data are managed consistent with the organization's risk strategy to protect	Functional	intersects with	Sensitive / Regulated Media	DCH-01.3	Mechanisms exist to ensure media records for sensitive/regulated data contain sufficient information to determine the potential impact in the event of a data loss incident.	5	
PR.DS	the confidentiality, integrity, and availability of information.			Records Defining Access		Mechanisms exist to explicitly define authorizations for specific individuals and/or roles	-	
		Functional	intersects with	Authorizations for Sensitive/Regulated Data	DCH-01.4	for logical and /or physical access to sensitive/regulated data.	5	

FDE #	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	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	(optional) 5	
		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	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
		Functional	intersects with	Use of Cryptographic	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
PR.DS-01	The confidentiality, integrity, and availability of data-at-rest are protected.	Functional	intersects with	Controls Alternate Physical	CRY-01.1	Cryptographic mechanisms exist to prevent unauthorized disclosure of information as an	5	
		Functional	intersects with	Protection Encrypting Data At Rest	CRY-05	alternative to physical safeguards. Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
		Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
PR.DS-02	The confidentiality, integrity, and availability of data-in-transit are protected.	Functional	intersects with	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
	······································	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
		Functional	intersects with	Transmission Integrity	CRY-04	Cryptographic mechanisms exist to protect the integrity of data being transmitted.	5	
		Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls. Mechanisms exist to facilitate the implementation of cryptographic protections controls	10	
		Functional	intersects with	Use of Cryptographic Controls	CRY-01	using known public standards and trusted cryptographic technologies.	5	
PR.DS-10	The confidentiality, integrity, and availability of data-in-use are protected.	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
		Functional	intersects with	Least 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	
		Frenchisch	Internet 11	Data Durit un	000.00	business functions. 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		
		Functional	intersects with	Data Backups	BCD-11	satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
PR.DS-11	Backups of data are created, protected, maintained, and tested.	Functional	intersects with	Testing for Reliability & Integrity Test Restoration Using	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. Mechanisms exist to utilize sampling of available backups to test recovery capabilities as	5	
		Functional	intersects with	Sampling Transfer to Alternate	BCD-11.5	part of business continuity plan testing. Mechanisms exist to transfer backup data to the alternate storage site at a rate that is	5	
		Functional	intersects with	Storage Site	BCD-11.6	capable of meeting both Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). Mechanisms exist to facilitate the implementation of configuration management controls.	5	
		Functional	intersects with	Configuration Management Program	CFG-01		5	
		Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
PR.PS	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with	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 • As oart of system component installations and uperades.	5	
	the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	Configure Systems, Components or Services for	CFG-02.5	Mechanisms exist to configure systems utilized in high-risk areas with more restrictive baseline configurations.	5	
				High-Risk Areas		Mechanisms exist to develop, disseminate, review & update procedures to facilitate the		
		Functional	intersects with	Maintenance Operations	MNT-01	implementation of maintenance controls across the enterprise.	5	
		Functional	intersects with	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
PR.PS-01	Configuration management practices are established and applied.	Functional	equal	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls. Mechanisms exist to develop, disseminate, review & update procedures to facilitate the	10	
		Functional	intersects with	Maintenance Operations	MNT-01	implementation of maintenance controls across the enterprise. Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of	5	
		Functional	intersects with	Controlled Maintenance Timely Maintenance	MNT-02 MNT-03	the system, application or service. Mechanisms exist to obtain maintenance support and/or spare parts for systems within a	5	
		Functional	intersects with	Preventative Maintenance	MNT-03.1	defined Recovery Time Objective (RTO). Mechanisms exist to perform preventive maintenance on critical systems, applications	5	
		Functional	intersects with	Secure Development Life	PRM-07	and services. Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
		Functional	intersects with	Cycle (SDLC) Management Technology Lifecycle	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
PR.PS-02	Software is maintained, replaced, and removed commensurate with risk.			Management		Mechanisms exist to prevent unsupported systems by: • Replacing systems when support for the components is no longer available from the		
		Functional	intersects with	Unsupported Systems	TDA-17	developer, vendor or manufacturer; and • Requiring justification and documented approval for the continued use of unsupported	5	
		Functional	intersects with	Vulnerability & Patch Management Program	VPM-01	system components required to satisfy mission/business needs. Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	5	
		Functional	intersects with	(VPMP) Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface management	5	
		Functional	intersects with	Vulnerability Remediation Process	VPM-02	activities. Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
		Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
		Functional	intersects with	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	5	
		Functional	intersects with	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service. Mechanisms exist to obtain maintenance support and/or spare parts for systems within a	5	
		Functional	intersects with	Timely Maintenance	MNT-03 MNT-03.1	defined Recovery Time Objective (RTO). Mechanisms exist to perform preventive maintenance on critical systems, applications	5	
PR.PS-03	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Preventative Maintenance Secure Development Life	PRM-07	and services. Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle	5	
				Cycle (SDLC) Management Technology Lifecycle		(SDLC) are controlled through formal change control procedures. Mechanisms exist to manage the usable lifecycles of technology assets.		
		Functional	intersects with	Management	SEA-07.1	Mechanisms exist to prevent unsupported systems by:	5	
		Functional	intersects with	Unsupported Systems	TDA-17	 Replacing systems when support for the components is no longer available from the developer, vendor or manufacturer; and Requiring justification and documented approval for the continued use of unsupported system comoonents required to satisfy mission/business needs. 	5	
		Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
		Functional	intersects with	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
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FDE #	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
PR.PS-04	Log records are generated and made available for continuous monitoring.					Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum:	(optional)	
		Functional	intersects with	Content of Event Logs	MON-03	Establish what type of event occurred; When (date and time) the event occurred;	5	
		- ancionar	interseets with	content of Event 2055	mon os	Where the event occurred; The source of the event;	5	
				o. (The outcome (success or failure) of the event; and The identity of any user/subject associated with the event		
		Functional	intersects with	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls. Mechanisms exist to develop, document and maintain secure baseline configurations for	5	
		Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	technology platforms that are consistent with industry-accepted system hardening standards.	5	
		Functional	intersects with	Least Functionality	CFG-03	Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
PR.PS-05	Installation and execution of unauthorized software are prevented.	Functional	intersects with	Prevent Unauthorized	CFG-03.2	Mechanisms exist to configure systems to prevent the execution of unauthorized software	5	
	-	Functional	intersects with	Software Execution	CFG-05.2	programs. Mechanisms exist to restrict the ability of non-privileged users to install unauthorized	5	
		Functional	intersects with	Prohibit Installation	END-03	software. Automated mechanisms exist to prohibit software installations without explicitly assigned privileged status.	5	
		Tunctional	intersects with	Without Privileged Status	2142-03	Mechanisms exist to facilitate the implementation of tailored development and		
		Functional	intersects with	Technology Development & Acquisition	TDA-01	acquisition strategies, contract tools and procurement methods to meet unique business needs.	5	
		Functional	intersects with	Product Management	TDA-01.1		5	
		Functional	intersects with	Secure Coding	TDA-06	security deficiencies. Mechanisms exist to develop applications based on secure coding principles.	5	
		Tunctionar	intersees with	Secure county	15/100	Mechanisms exist to require the developer of the system, system component or service to	5	
	Secure software development practices are integrated, and their	Functional	intersects with	Criticality Analysis	TDA-06.1	perform a criticality analysis at organization-defined decision points in the Secure Development Life Cycle (SDLC).	5	
PR.PS-06	performance is monitored throughout the software development life cycle.	Functional	intersects with	Threat Modeling	TDA-06.2	Mechanisms exist to perform threat modelling and other secure design techniques, to ensure that threats to software and solutions are identified and accounted for.	5	
		Functional	intersects with	Software Assurance	TDA-06.3	Mechanisms exist to utilize a Software Assurance Maturity Model (SAMM) to govern a	5	
		Functional	Intersects with	Maturity Model (SAMM)	TDA-00.5	secure development lifecycle for the development of systems, applications and services. Mechanisms exist to require system developers/integrators consult with cybersecurity &	5	
				Cybersecurity & Data		data privacy personnel to: • Create and implement a Security Test and Evaluation (ST&E) plan;		
		Functional	intersects with	Privacy Testing Throughout Development	TDA-09	 Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and 	5	
						Document the results of the security testing/evaluation and flaw remediation processes.		
		Functional	subset of	Cybersecurity & Data Protection Governance	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
				Program Steering Committee &		Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data		
		Functional	intersects with	Program Oversight	GOV-01.1	privacy and business executives, which meets formally and on a regular basis.	5	
		Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
PRJR	Security architectures are managed with the organization's risk strategy to		. have d	Secure Engineering		Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity &	10	
PRIR	protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	subset of	Principles Centralized Management of	SEA-01	data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to centrally-manage the organization-wide management and	10	
		Functional	intersects with	Cybersecurity & Data Privacy Controls	SEA-01.1	implementation of cybersecurity & data privacy controls and related processes.	5	
		Functional	intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
						Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized		
		Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	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	5	
PR.IR-01	Networks and environments are protected from unauthorized logical access	Tunctionar	intersees with	Layered network bereises	HET DE	the functionality or correctness of higher layers.	5	
PR.IR-01	and usage.	Functional	intersects with	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services.	5	
				Alignment With Enterprise		Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that	_	
		Functional	intersects with	Architecture	SEA-02	addresses risk to organizational operations, assets, individuals, other organizations.	5	
		Functional	intersects with	Business Continuity Management System	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or	5	
				(BCMS)		Business Continuity & Disaster Recovery (BC/DR) playbooks). Mechanisms exist to facilitate the operation of physical and environmental protection		
		Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
		Functional	intersects with	Supporting Utilities	PES-07	Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.	5	
PR.IR-02	The organization's technology assets are protected from environmental threats.	Functional	intersects with	Water Damage Protection	PES-07.5	Facility security mechanisms exist to protect systems from damage resulting from water leakage by providing master shutoff valves that are accessible, working properly and	5	
		Functional	intersects with	Fire Protection	PES-08	known to key personnel. Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent energy source.	5	
			intersects with	Temperature & Humidity		Facility security mechanisms exist to maintain and monitor temperature and humidity	5	
		Functional	intersects with	Controls Achieving Resilience	PES-09 SEA-01.2	levels within the facility. Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
		Functional	intersects with	Requirements Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and	5	
				Business Continuity		external threats to the organization, both natural and manmade. 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		
		Functional	subset of	Management System (BCMS)	BCD-01	Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
	Mechanisms are implemented to achieve resilience requirements in normal	Functional	intersects with	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and	5	
PR.IR-03	and adverse situations.					modification of systems and services. Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized		
		Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
		Functional	intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
		Functional	subset of	Capacity & Performance Management	CAP-01	Mechanisms exist to facilitate the implementation of capacity management controls to ensure optimal system performance to meet expected and anticipated future capacity	10	
		For the L	later 11	-	C+0	requirements. Mechanisms exist to control resource utilization of systems that are susceptible to Denial	-	
PR.IR-04	Adequate resource capacity to ensure availability is maintained.	Functional	intersects with	Resource Priority	CAP-02	of Service (DoS) attacks to limit and prioritize the use of resources.	5	
		Functional	intersects with	Capacity Planning	CAP-03	Mechanisms exist to conduct capacity planning so that necessary capacity for information processing, telecommunications and environmental support will exist during contingency operations.	5	
	1	Functional	intersects with	Performance Monitoring	CAP-04	Automated mechanisms exist to centrally-monitor and alert on the operating state and health status of critical systems, applications and services.	5	

Networks Control Decemption Relationship Decemption DE Functional intervects with Eastic Expansion Cu-do S Mechanisms exist to infjernence resource available for envices, as conditions change. DE Particinal intervects with Eastic Expansion Cu-do S Mechanisms exist to infjernent a thread intervect, as conditions change. DE Particinal subset of Threat Intelligence Program THR.01 Functional intervects with Indicators of Exposure (IOC) THR.02 Wechanisms exist to implement a thread intervect available of exverts oblication of Exact the oblicatin exact the oblication of Exact the oblication of Exact the oblic	ss- for the set of the	
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DE.CM Networks and network services are monitored to find potentially adverse events. Functional Intersects with intersects with Continuous Anomalous Behavior Compromise (IOC) INN-44 (MON-113) Mechanisms exist to identify and alter on indicators of Compromise (IOC) DE.CM 01 Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events. Functional intersects with Functional Anomalous Behavior (IOC) MON-113 Mechanisms exist to identify and alter on indicators of Compromise (IOC) Monetariant emechanisms exist to identify and alter on indicators of Compromise (IOC) Monetariant emechanisms exist to identify and eccount compromise or other mailing as activities of compromise (IOC) Monetariant emechanisms exist to identify and potential (preventify eventify (IOC) Monetariant emechanisms exist to identify and potential (preventify eventify (IOC) Monetariant emechanisms exist to advect and response (IOC) in indenstrand the pot attact vectors and exist to advector of Exposure (IOC) is undenstrand the pot attact vectors and exist to advector of Exposure (IOC) is undenstrand the pot attact vectors and exist to advector of Exposure (IOC) is undenstrand the pot attact vectors and exist to advector of Exposure (IOC) is undenstrand the pot attact vectors and exist to advector and exist to advector advector of Exposure (IOC) is undenstrand the pot attact vectors and exist to advector of Exposure (IOC) is undenstrand the pot attact vector inclus system, key network segments and network ock obe poin controls. DE.CM.01 Intersects with Functional Intersects with In	te S e signs of S initial S initial S initial S initial S s. S s. S s. S s. S s. S s. S s. S s.	
DECM Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events. Functional intersects with Anomalous Behavior MON-16 (arcount compromise or other mailcious activities. DECM-01 Functional intersects with Indicators of Compromise (IOC) to identify the control indicators of Compromise (IOC) to identify the control indicators of Exposure (IOE) THR-00 Mechanisms exist to define period indicators of Compromise (IOC) to identify the control. DECM-01 Networks and network services are monitored to find potentially adverse events. Functional intersects with Continuous Monitoring intersects with inte	signs of S ntial S s s s s s s s s s s s s s s s s s s s	
DECMO potentially adverse events. indicators of Compromise (IOC) account compromise of ther malicious activities. PECMO1 Functional intersects with Indicators of Compromise (IOC) RO-83 (INC-93) Mechanisms exist to define specific indicators of Compromise (IOC) to identify it potential obserseurity events. RO-81 Functional intersects with Indicators of Exposure (IOC) THR-00 attack vectors that attackers could use to attack the organization. Methonisms exist to advelop indicators of Exposure (IOC) Functional subset of continuous Monitoring MON-01 (MON-01 (Intrusion Detection & PS) Mechanisms exist to implement intrusion Detection / PS Mechanisms exist to implement intrusion Detection / PS Mechanisms exist to continuously monitor inbound and outbound communications Traffic MON-013 (MON-013) Mechanisms exist to continuously monitor inbound and outbound communication for unsual or unsubnic read activities or conditions. Functional intersects with Reviews & Updates MON-013 (MON-013) Mechanisms exist to continuously monitor inbound and outbound communications Traffic MON-014 (Mechanisms exist to continuously monitor, correlate and respond to alerts from ph avareness. Functional intersects with Reviews & Updates MON-013 (Mon-014) Mechanisms exist to review event upgs on a nongoing basis and existerie erincondions. <tr< td=""><td>e signs of 5 ntial 5 10 PS) 5 ns traffic 5 sical, 5 sical, 5</td><td></td></tr<>	e signs of 5 ntial 5 10 PS) 5 ns traffic 5 sical, 5 sical, 5	
DECM-01 Functional intersects with intersects with Indicators of Exposure (IOE) Functional Indicators of Exposure (IOE) indicators of Exposure (IOE) Mechanisms exist to develop indicators of Exposure (IOE) attack vectors that attack the organization. DECM-01 Functional subset of intersects with Continuous Monitorin (Intrusion Detection & Prevention Systems (IOE) & (Intrusion Detection & (Intrusion Detection & Prevention Systems (IOE) & (Intrusion Detection & (Intrus	ntial 5 10 PS) 5 ns traffic 5 sical, 5 cip	
DECMOI Functional Functional Subset of Intrusion Detection & Prevention Systems (DS & Prevention	ID ID ID ID ID ID ID ID ID ID	
DECMO1 Instruison Detection & Control Prevention Systems (DS & Prevention Syst	PS) s. 5 sical, tional 5	
DEC.M01 Image: Processing and the services are monitored to find potentially adverse events. Image: Processing advectsing advectsi	ns traffic 5 sical, tional 5	
events. events	sical, tional 5	
Functional Functional intersects with System Generated Alerts MON-01.4 cybersecurity, data privacy and supply chain activities to achieve integrated situ avareness. Functional Intersects with Reviews & Updates MON-01.4 cybersecurity, data privacy and supply chain activities to achieve integrated situ avareness. Functional Intersects with Reviews & Updates MON-03.8 Mechanisms exist to review event logs on an ongoing basis and esclate inciden accordance with established timeles and procedures. Functional Intersects with Physical & Environmental PES-01 Mechanisms exist to facilitate the operation of physical and environmental proto- roorteries.	tional 5	
Functional Intersects with Reviews & Updates MON-0.3 Monthainmin exist to review event logs on an ongoing basis and esclate incident accordance with a trabilishing timemes and procedures. Functional Functional Physical & Environmental Psycial & Environmental & Environmental Psycial & Environmental & Environmental & Environmental & E	sin _	
Functional intersects with Physical & Environmental PCS-01 control Physical and environmental prob	5	
DECM-02 The physical environment is monitored to find potentially adverse events. Functional intersects with Physical Access Control PPS-03 physical access control mechanisms exist to enforce physical access authorization to find potentially adverse events.		
Functional intersects with Physical Access Logs PES-03.3 Physical access control mechanisms generate a log entry for each access attemp	through 5	
Eurocional intersects with Monitoring Physical Arrays PCC, Physical Access control mechanisms exist to monitor for, detect and respond to		
Functional intersects with Continuous Monitorine MON-10 Michainsme skits of scilitate the Implementation of enterprise-wide monitorin	5	
Eurocional interserts with Anomalous Rehavior MON-16 Mechanisms exist to detect and respond to anomalous behavior that could indic	te 5	
Personnel activity and technology usage are monitored to find potentially Functional intersects with Insider Threats MON-16.1 Mechanisms exist to monitor internal personnel activity for potential security in	idents. 5	
DE.CM-03 adverse events. Functional intersects with Unauthorized Activities MON-163 Adverse events and software.	devices 5	
Functional intersects with DNS & Content Filtering DNS & Content Filtering and DNS filtering to Im additional sector of the prohibited intersects with DNS & Content Filtering DNS & Content Filtering and DNS filtering to Im addition to composite of the prohibited intersect sectors and the prohibited intersects with the prohibited intersect is the sector of the prohibited intersector of the prohibited inter		
Functional intersects with Continuous Monitoring MON-01 Mechanisms exist to facilitate the implementation of enterprise-wide monitorin	5	
External service provider activities and services are monitored to find	5	
pueniary auverse evenis.	privileged 5	
Modification Logging Modification Logging accounts and/or groups. Functional intersects with Continuous Monitoring MON-01 accounts and/or groups.	5	
Functional intersects with File Integrity Monitoring (FM) MON-01.7 technology, on critical assets to generate alerts for unauthorized modifications.	tion 5	
Computing budgups and adjupts a putting and adjupts and their data	5	
are monitored to find potentially adverse events.	licious	
Anti-Malware) Anti-	5 o detect	
Functional intersects with Functional intersects with Functional File Integrity Monitoring (FIM) END-06 and End of the registry Monitoring (FIM) END-06 and Contract the registry Monitoring (FIM) E	5	
Functional intersects with Continuous Monitoring MON-01 controls.	5	
Functional Intersects with Reviews & Updates MON+01.8 accordance with established timelines and procedures.	5	
DEAE Anomalies, indicators of compromise, and other potentially adverse events	5	
are analyzed to characterize the events and detect cybersecurity incidents. Functional subset of Operations IRO-01 organization-wide response capability for cybersecurity & data privacy-related in the component of the componen	cidents. 10	
Functional intersects with Incident Handling IR-0-20 reporting, analysis, containment, eradication and recovery.	ident 5	
Functional Functional intersects with Incident Classification & Prioritization Prioritization	5	
DEAE.02 Potentially adverse events are analyzed to better understand associated Functional intersects with Incident Handling IRO-02 Mechanisms exist to cover the preparation, automated detection or intake of in reporting, analysis, containment, eradication and recovery.	2	
activities. Functional Functional intersects with Incident Classification & Ro-02.4 Mechanisms exist to identify classes of incidents and actions to take to ensure the prioritization intersects with Prioritization and Budges Automatic A	e 5	
Functional Functional Centralized Collection of Security Event Logs Mechanisms exist to utilize a Security Incident Event Manager (SEM) or similar automated tool, to support the centralized collection of Automated mechanisms exist to correlate both technical informational and non-technical informational andinformatice andical and non-technice anding and non-technical in		
DEAE-03 Information is correlated from multiple sources.		
Functional Incident Handling IRO-02 Mechanisms exist to cover the preparation, automated detection or intake of in reporting, analysis, containment, eradication and recovery. Correlation with External 0.000 Mechanisms exist to coordinate with approved third-parties to achieve a cross- training of the second seco	3	
runkuolaa intersets wui Organizations 100-02.3 organization perspective on incident awareness and more effective incident res		
Functional intersects with Incident Handling IRO-02 Mechanisms exist to cover the preparation, automated detection or intake of in reporting, analysis, containment, eradication and recovery.	2	
DEAE-04 The estimated impact and scope of adverse events are understood. Functional intersects with Incident Classification & IRO-02.4 Mechanisms exist to identify classes of incidents and actions to take to ensure the prioritization of organizational missions and business functions.	2	
Functional Functional Materiality Determination GOV-10 Mechanisms exist to define materiality threshold criteria to designate an incider material. Materiality Determination Materiality Control of the material of the material of the material of the material. Materiality Determination Materiality Control of the material of the material of the material of the material.	5	
Functional Intersects with Reviews & Updates MOR-Na1 Mechanisms exist to review event logs on an ongoing basis and escalate inciden accordance with established timelines and procedures. Image: State of the state of t	,	
Functional intersects with Automated Alerts MUV- 01.12 anomalous activities that have potential security incident implications.	riate or 5	
Functional intersects with Centralized Collection of Security Event Logs	gs. 5	

FDE #	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
		Kationale	Relationship			Automated mechanisms exist to correlate both technical and non-technical information	(optional)	
		Functional	intersects with	Correlate Monitoring Information	MON-02.1	from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	5	
DE.AE-06 In	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
		Functional	intersects with	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
		Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
		Functional	intersects with	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	
		Functional	intersects with	Situational Awareness For Incidents	IRO-09	Michaeline operations. Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
		Functional	intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: • Internal stakeholders; • Affected clients & third-parties; and	5	
		The second second	a hard of		710.04	Regulatory authorities. Reculatory authorities. Mechanisms exist to implement a threat intelligence program that includes a cross- organization information-sharing capability that can influence the development of the		
	Cyber threat intelligence and other contextual information are integrated into the analysis.	Functional	subset of	Threat Intelligence Program	THR-01	system and security architectures, selection of security solutions, monitoring, threat hunting. resoonse and recovery activities. Mechanisms exist to maintain situational awareness of evolving threats by leveraging the	10	
		Functional	intersects with	Threat Intelligence Feeds	THR-03	knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls. Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and	5	
		Functional	intersects with	Threat Analysis	THR-10	likelihood(s) of applicable internal and external threats. Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
DE.AE-08	Incidents are declared when adverse events meet the defined incident criteria.	Functional	intersects with	Incident Handling Incident Classification &	IRO-02 IRO-02.4	reporting, analysis, containment, eradication and recovery. Mechanisms exist to identify classes of incidents and actions to take to ensure the	5	
				Prioritization Incident Response		continuation of organizational missions and business functions. Mechanisms exist to implement and govern processes and documentation to facilitate an		
		Functional	subset of	Operations	IRO-01	organization-wide response capability for cybersecurity & data privacy-related incidents. Mechanisms exist to cover the preparation, automated detection or intake of incident	10	
		Functional	intersects with	Incident Handling Incident Response Plan	IRO-02	Mechanisms exist to cover the preparation, automated detection or intrake or incident reporting, analysis, containment, eradication and recovery. Mechanisms exist to maintain and make available a current and viable Incident Response	5	
		Functional	intersects with	(IRP)	IRO-04	Plan (IRP) to all stakeholders. Mechanisms exist to establish an integrated team of cybersecurity, IT and business	5	
RS	Actions regarding a detected cybersecurity incident are taken.	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
		Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
		Functional	intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: • Internal stakeholders; • Affected clients & third-parties; and • Reculatory authorities.	5	
		Functional	intersects with	Incident Handling	IRO-02	 Reclarator v during the second second	5	
RS.MA	Responses to detected cybersecurity incidents are managed.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
		Functional	intersects with	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	5	
		Functional	intersects with	Incident Handling	IRO-02	incident response operations. Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
				Correlation with External		reporting, analysis, containment, eradication and recovery. Mechanisms exist to coordinate with approved third-parties to achieve a cross-		
		Functional	intersects with	Organizations Incident Response Plan	IRO-02.5	organization perspective on incident awareness and more effective incident responses. Mechanisms exist to maintain and make available a current and viable Incident Response	5	
RS.MA-01	The incident response plan is executed in coordination with relevant third parties once an incident is declared.	Functional	intersects with	(IRP)	IRO-04	Plan (IRP) to all stakeholders. Mechanisms exist to establish an integrated team of cybersecurity, IT and business	5	
		Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
		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	Regulatory authorities. Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
RS.MA-02	Incident reports are triaged and validated.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	reporting, analysis, containment, eradication and recovery. Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
RS.MA-03	Incidents are categorized and prioritized.	Functional	equal	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	10	
		Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
RS.MA-04	Incidents are escalated or elevated as needed.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
		Functional	intersects with	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	
		Functional	intersects with	Business Continuity Management System	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	5	
RS.MA-05	The criteria for initiating incident recovery are applied.			(BCMS)		Mechanisms exist to define spefic criteria necessary that must be met to execute Disaster		
		Functional	intersects with	Recovery Operations Criteria	BCD-01.5	Recover / Business Continuity (BC/OR) plans to facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
RS.AN	Investigations are conducted to ensure effective response and support	Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery. Machaniems wirt to andream digital forgorier, and explanting the integrity of the chain of	5	
RS.MV	forensics and recovery activities.	Functional	intersects with	Chain of Custody & Forensics	IRO-08	Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.	5	
RS.AN-03	Analysis is performed to establish what has taken place during an incident and the root cause of the incident.	Functional	equal	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	10	
		Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
RS.AN-06	Actions performed during an investigation are recorded, and the records' integrity and provenance are preserved.	Functional	intersects with	Chain of Custody & Forensics	IRO-08	Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.	5	
		Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
RS.AN-07	Incident data and metadata are collected, and their integrity and provenance are preserved.	Functional	subset of	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	
RS.AN-08	An incident's magnitude is estimated and validated.	Functional	equal	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	10	
		Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery. Mechanisms exist to coordinate with approved third-parties to achieve a cross-	5	
		Functional	intersects with	Correlation with External Organizations	IRO-02.5	organization perspective on incident awareness and more effective incident responses.	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. Mechanisms exist to document, monitor and report the status of cybersecurity & data	5	
RS.CO	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
		Functional	intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: • Internal stakeholders; • Affected clients & third-parties; and • Reculatory authorities.	5	
		Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	 Regulatory authorities. Mechanisms exist to report sensitive/regulated data incidents in a timely manner. 	5	
	•							

		Rationale	Relationship					Notes (optional)
		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.	(optional) 5	
		Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
	Internal and external stakeholders are notified of incidents.	Functional	intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: • Internal stakeholders; • Affected clients & third-parties; and	5	
RS.CO-02 Intern		Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	Regulatory authorities. Mechanisms exist to report sensitive/regulated data incidents in a timely manner.	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	
	Information is shared with designated internal and external stakeholders.	Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
RS.CO-03 Inform		Functional	intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: • Internal stakeholders; • Affected clients & third-parties; and • Regulatory authorities.	5	
KS.CO-OS INION		Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	Mechanisms exist to report sensitive/regulated data incidents in a timely manner.	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	
Activi	Activities are performed to prevent expansion of an event and mitigate its	Functional	intersects with	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	5	
RS.MI effect		Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
		Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders. Mechanisms exist to cover the preparation, automated detection or intake of incident	5	
	dents are contained.	Functional	subset of	Incident Handling	IRO-02	reporting, analysis, containment, eradication and recovery. Mechanisms exist to cover the preparation, automated detection or intake of incident	10	
RS.MI-02 Incide	dents are eradicated.	Functional	subset of	Incident Handling	IRO-02	reporting, analysis, containment, eradication and recovery. Mechanisms exist to facilitate the implementation of contingency planning controls to	10	
RC Asset:	Assets and operations affected by a cybersecurity incident are restored.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	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	Information System Recovery & Reconstitution	BCD-12	Mechanisms exist to ensure the secure recovery and reconstitution of systems to a known state after a disruption, compromise or failure. Mechanisms exist to facilitate the implementation of contingency planning controls to	5	
	Restoration activities are performed to ensure operational availability of systems and services affected by cybersecurity incidents.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	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	Recovery Time / Point Objectives (RTO / RPO)	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
		Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
		Functional	intersects with	Resume All Missions & Business Functions	BCD-02.1		5	
	recovery portion of the incident response plan is executed once initiated the incident response process.	Functional	intersects with	Recovery Operations Criteria	BCD-01.5	capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
		Functional	intersects with	Information System Recovery & Reconstitution	BCD-12	Mechanisms exist to ensure the secure recovery and reconstitution of systems to a known state after a disruption, compromise or failure.	5	
	Recovery actions are selected, scoped, prioritized, and performed.	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	
RC.RP-02 Recov		Functional	intersects with	Recovery Time / Point Objectives (RTO / RPO)	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
		Functional	intersects with	Identify Critical Assets Resume All Missions &	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions. Machanisms writt to recome all microines and humans functions within Recommunity Time.	5	
		Functional	intersects with	Business Functions Backup & Restoration	BCD-02.1	Mechanisms exist to resume all missions and business functions within Recovery Time Objectives (RTOs) of the contingency plan's activation. Mechanisms exist to protect backup and restoration hardware and software.	5	
	integrity of backups and other restoration assets is verified before using n for restoration.	Functional	intersects with	Hardware Protection Restoration Integrity	BCD-13	Mechanisms exist to verify the integrity of backups and other restoration assets prior to	5	
	Critical mission functions and cybersecurity risk management are considered to establish post-incident operational norms.	Functional	subset of	Verification Business Continuity Management System (BCMS)	BCD-13.1 BCD-01	using them for restoration. 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).	5	
		Functional	intersects with	Recovery Time / Point	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time	5	
to est		Functional	intersects with	Objectives (RTO / RPO) Identify Critical Assets	BCD-02	Objectives (RTOs) and Recovery Point Objectives (RPOs). Mechanisms exist to identify and document the critical systems, applications and services that current screetial micrians and burginger, functioner	5	
		Functional	intersects with	Resume All Missions & Business Functions	BCD-02.1	that support essential missions and business functions. Mechanisms exist to resume all missions and business functions within Recovery Time Objectives (RTOs) of the contingency plan's activation.	5	
	integrity of restored assets is verified, systems and services are restored, normal operating status is confirmed.	Functional	subset of	Information System Recovery & Reconstitution	BCD-12	Ouecutes in toy of the contingency plans a creation. Mechanisms exist to ensure the secure recovery and reconstitution of systems to a known state after a disruption, compromise or failure.	10	
The o	The end of incident recovery is declared based on criteria, and incident related documentation is completed.	Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover the preparation, automated detection or intake of incident reporting, analysis, containment, eradication and recovery.	5	
		Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
2005		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	
RC.CO Resto	toration activities are coordinated with internal and external parties.	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	
	overy activities and progress in restoring operational capabilities are imunicated to designated internal and external stakeholders.	Functional	equal	Recovery Operations Communications	BCD-01.6	Mechanisms exist to communicate the status of recovery activities and progress in restoring operational capabilities to designated internal and external stakeholders.	10	
	lic updates on incident recovery are shared using approved methods and saging.	Functional	subset of	Public Relations & Reputation Repair	IRO-16	Mechanisms exist to proactively manage public relations associated with incidents and employ appropriate measures to prevent further reputational damage and develop plans to repair any damage to the organization's reputation.	10	