STRM Guidance:

NIST IR 8477-Based Set Theory Relationship Mapping (STRM)
Reference Document: Secure Controls Framework (SCF) version 2025.1

https://securecontrolsframework.com/set-theory-relationship-mapping-strm/

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NIST Cybersecurity Framework (CSF) version 2.0

https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.29.pdf2

https://securecontrolsframework.com/content/strm/scf-strm-general-nist-csf-2-0.pdf

Strength of

STRM STRM **Secure Controls Framework (SCF)** FDE# **FDE Name Focal Document Element (FDE) Description SCF Control** SCF# Relationship Notes (optional) Rationale Relationship **Control Description** (optional) Cybersecurity & Data Mechanisms exist to facilitate the implementation of cybersecurity & data **Protection Governance** GOV-01 protection governance controls. 10 subset of Program Mechanisms exist to develop, report and monitor cybersecurity & data privacy GOV-05 program measures of performance. intersects with Measures of Performance 8 The organization's cybersecurity risk management strategy, GV Functional N/A expectations, and policy are established, communicated, and Mechanisms exist to facilitate the implementation of strategic, operational and monitored. Risk Management subset of tactical risk management controls. 10 Program Mechanisms exist to establish a strategic cybersecurity & data privacy-specific Strategic Plan & PRM-01.1 business plan and set of objectives to achieve that plan. 5 intersects with Objectives Mechanisms exist to define the context of its business model and document the organization's mission. **Defining Business** GOV-08 10 subset of Context & Mission Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function. Asset-Service AST-01.1 intersects with Dependencies The circumstances — mission, stakeholder expectations, Mechanisms exist to identify and involve pertinent stakeholders of critical systems dependencies, and legal, regulatory, and contractual requirements -Stakeholder Identification applications and services to support the ongoing secure management of those GV.OC N/A Functional intersects with AST-01.2 surrounding the organization's cybersecurity risk management & Involvement assets. decisions are understood. Mechanisms exist to facilitate the identification and implementation of relevant Statutory, Regulatory & statutory, regulatory and contractual controls. intersects with 5 Contractual Compliance Responsible, Mechanisms exist to document and maintain a Responsible, Accountable, Accountable, Supportive, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to TPM-05.4 intersects with 5 Consulted & Informed delineate assignment for cybersecurity & data privacy controls between internal (RASCI) Matrix stakeholders and External Service Providers (ESPs). Mechanisms exist to define the context of its business model and document the **Defining Business** 10 GOV-08 subset of Context & Mission organization's mission. Mechanisms exist to identify: (1) Assumptions affecting risk assessments, risk response and risk monitoring; (2) Constraints affecting risk assessments, risk response and risk monitoring; RSK-01.1 (3) The organizational risk tolerance; and The organizational mission is understood and informs cybersecurity risk intersects with Risk Framing GV.OC-01 N/A Functional management. (4) Priorities, benefits and trade-offs considered by the organization for managing Mechanisms exist to perform threat modelling and other secure design techniques TDA-06.2 to ensure that threats to software and solutions are identified and accounted for. intersects with **Threat Modeling** 4 Mechanisms exist to identify and involve pertinent stakeholders of critical systems takeholder Identificatior AST-01.2 applications and services to support the ongoing secure management of those intersects with 5 & Involvement Mechanisms exist to require contractual requirements for cybersecurity & data Internal and external stakeholders are understood, and their needs and **Third-Party Contract** intersects with TPM-05 | privacy requirements with third-parties, reflecting the organization's needs to GV.OC-02 expectations regarding cybersecurity risk management are understood Functional Requirements protect its systems, processes and data. and considered. Responsible, Mechanisms exist to document and maintain a Responsible, Accountable, Accountable, Supportive, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to TPM-05.4 5 intersects with Consulted & Informed delineate assignment for cybersecurity & data privacy controls between internal (RASCI) Matrix stakeholders and External Service Providers (ESPs). Mechanisms exist to facilitate the identification and implementation of relevant Statutory, Regulatory & 10 CPL-01 subset of statutory, regulatory and contractual controls. Contractual Compliance Mechanisms exist to provide a cybersecurity & data protection controls oversight Cybersecurity & Data **Protection Controls** 5 intersects with CPL-02 function that reports to the organization's executive leadership. Oversight Legal, regulatory, and contractual requirements regarding Mechanisms exist to facilitate the implementation and operation of data protection PRI-01 GV.OC-03 N/A cybersecurity — including privacy and civil liberties obligations — are Data Privacy Program Functional controls throughout the data lifecycle to ensure all forms of Personal Data (PD) are intersects with understood and managed. processed lawfully, fairly and transparently. Mechanisms exist to require contractual requirements for cybersecurity & data **Third-Party Contract** TPM-05 privacy requirements with third-parties, reflecting the organization's needs to intersects with Requirements protect its systems, processes and data. Mechanisms exist to ensure cybersecurity & data privacy requirements are Contract Flow-Down TPM-05.2 included in contracts that flow-down to applicable sub-contractors and suppliers. 5 intersects with Requirements Mechanisms exist to define the context of its business model and document the **Defining Business** GOV-08 organization's mission. Functional intersects with Context & Mission Mechanisms exist to identify and document the critical systems, applications and intersects with BCD-02 services that support essential missions and business functions. **Functional Identify Critical Assets** 5 Critical objectives, capabilities, and services that external stakeholders GV.OC-04 N/A depend on or expect from the organization are understood and Mechanisms exist to establish a strategic cybersecurity & data privacy-specific Strategic Plan & PRM-01.1 business plan and set of objectives to achieve that plan. 5 communicated. Functional intersects with Objectives Mechanisms exist to identify, prioritize and assess suppliers and partners of critical Third-Party Criticality systems, components and services using a supply chain risk assessment process TPM-02 **Functional** 5 intersects with Assessments relative to their importance in supporting the delivery of high-value services. Mechanisms exist to identify and document the critical systems, applications and BCD-02 intersects with **Identify Critical Assets** services that support essential missions and business functions. Mechanisms exist to generate, or obtain, a Software Bill of Materials (SBOM) for Software Bill of Metrials TDA-04.2 systems, applications and services that lists software packages in use, including intersects with 4 Outcomes, capabilities, and services that the organization depends on (SBOM) GV.OC-05 N/A Functional versions and applicable licenses. are understood and communicated. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical Third-Party Criticality systems, components and services using a supply chain risk assessment process TPM-02 5 intersects with Assessments relative to their importance in supporting the delivery of high-value services. Assigned Cybersecurity & Mechanisms exist to assign one or more qualified individuals with the mission and GOV-04 resources to centrally-manage, coordinate, develop, implement and maintain an **Data Protection** 5 intersects with Responsibilities enterprise-wide cybersecurity & data protection program. Cybersecurity & Data Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-PRM-01 related resource planning controls that define a viable plan for achieving intersects with **Privacy Portfolio** cybersecurity & data privacy objectives. Management Mechanisms exist to establish a strategic cybersecurity & data privacy-specific Strategic Plan & PRM-01.1 business plan and set of objectives to achieve that plan. 5 intersects with Objectives Mechanisms exist to facilitate the implementation of strategic, operational and Risk Management intersects with RSK-01 5 tactical risk management controls. Program The organization's priorities, constraints, risk tolerance and appetite N/A GV.RM statements, and assumptions are established, communicated, and Functional Mechanisms exist to identify: used to support operational risk decisions. (1) Assumptions affecting risk assessments, risk response and risk monitoring; (2) Constraints affecting risk assessments, risk response and risk monitoring; RSK-01.1 (3) The organizational risk tolerance; and Risk Framing intersects with (4) Priorities, benefits and trade-offs considered by the organization for managing Mechanisms exist to define organizational risk tolerance, the specified range of RSK-01.3 acceptable results. intersects with Risk Tolerance Mechanisms exist to define organizational risk appetite, the degree of uncertainty intersects with RSK-01.5 the organization is willing to accept in anticipation of a reward. Risk Appetite Cybersecurity & Data Mechanisms exist to facilitate the implementation of cybersecurity & data GOV-01 protection governance controls. subset of **Protection Governance** 10 Program Mechanisms exist to coordinate cybersecurity, data protection and business Steering Committee & alignment through a steering committee or advisory board, comprised of key GOV-01.1 10 intersects with Risk management objectives are established and agreed to by cybersecurity, data privacy and business executives, which meets formally and on **Program Oversight** GV.RM-01 N/A Functional organizational stakeholders. Mechanisms exist to develop, report and monitor Key Risk Indicators (KRIs) to Key Risk Indicators (KRIs) GOV-05.2 assist senior management in performance monitoring and trend analysis of the 3 intersects with cybersecurity & data privacy program. Risk Management Mechanisms exist to facilitate the implementation of strategic, operational and RSK-01 intersects with Program tactical risk management controls. Mechanisms exist to define organizational risk tolerance, the specified range of 10 Risk Tolerance RSK-01.3 intersects with Risk appetite and risk tolerance statements are established, GV.RM-02 N/A Functional communicated, and maintained. Mechanisms exist to define organizational risk appetite, the degree of uncertainty RSK-01.5 10 Risk Appetite intersects with the organization is willing to accept in anticipation of a reward.



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intersects with

communicated and enforced.

Acknowledgement



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional) (optional)
				intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5
				intersects with	Periodic Review & Update of Cybersecurity & Data		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.	8
GV.PO-02	N/A	Policy for managing cybersecurity risks is reviewed, updated, communicated, and enforced to reflect changes in requirements,	Functional	intersects with	Protection Program Policy Familiarization &	HPS_05_7	Mechanisms exist to ensure personnel receive recurring familiarization with the organization's cybersecurity & data privacy policies and provide acknowledgement.	Ω
		threats, technology, and organizational mission.		intersects with	Acknowledgement Personnel Sanctions		Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	Ω
				intersects with	Steering Committee &		Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	
				intersects with	Program Oversight	GOV-01.1	cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to provide governance oversight reporting and recommendations	5
GV.OV	N/A	Results of organization-wide cybersecurity risk management activities and performance are used to inform, improve, and adjust the risk	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	to those entrusted to make executive decisions about matters considered material	5
OV.OV	N/A	management strategy.	Tanotionat	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5
				intersects with	Periodic Review & Update of Cybersecurity & Data	GOV-03	Mechanisms exist to review the cybersecurity & data privacy program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5
					Protection Program Steering Committee &		Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	
				intersects with	Program Oversight	GOV-01.1	cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to provide governance oversight reporting and recommendations	5
				intersects with	Status Reporting To Governing Body	GOV-01.2	to those entrusted to make executive decisions about matters considered material	5
GV.OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Measures of Performance		Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance. Mechanisms exist to review the cybersecurity & data privacy program, including	5
				intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5
				intersects with	Defining Business Context & Mission Strategic Plan &	GOV-08	Mechanisms exist to define the context of its business model and document the organization's mission. Mechanisms exist to establish a strategic cybersecurity & data privacy-specific	5
				intersects with	Objectives Steering Committee &	PRM-01.1	business plan and set of objectives to achieve that plan. Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	5
				subset of	Program Oversight	GOV-01.1	cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to review the cybersecurity & data privacy program, including	10
GV.OV-02	N/A	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	policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	10
				intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5
				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	5
GV.OV-03	N/A	Organizational cybersecurity risk management performance is	Functional	intersects with	Status Reporting To	GOV-01.2	a regular basis. Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material	
GV.6V 00	, w/	evaluated and reviewed for adjustments needed.	Tanonat		Governing Body Measures of Performance		to the organization's cybersecurity & data protection program. Mechanisms exist to develop, report and monitor cybersecurity & data privacy	5
				intersects with	Risk Management Program	RSK-01	program measures of performance. Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5
				subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10
				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	5
				intersects with	Status Reporting To	GOV-01.2	a regular basis. Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material	5
					Governing Body		to the organization's cybersecurity & data protection program. Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	
GV.SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Risk Management		Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5
				interesets with	Program Supply Chain Risk		Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of	
				equal	Management (SCRM) Plan		systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	10
				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
				intersects with	Supply Chain Protection	TPM-03	Mechanisms exist to evaluate security risks associated with the services and product supply chain.	8
				subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10
				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	5
		A cybersecurity supply chain risk management program, strategy,		interposts with	Publishing Cybersecurity	GOV-02	a regular basis. Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5
GV.SC-01	N/A	objectives, policies, and processes are established and agreed to by organizational stakeholders.	Functional	intersects with	& Data Protection Documentation	GUV-02	Mechanisms exist to facilitate the implementation of strategic, operational and	J
				intersects with	Risk Management Program	RSK-01	tactical risk management controls. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM)	5
				equal	Supply Chain Risk Management (SCRM) Plan	RSK-09	associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	10
				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.	8
GV.SC-02	N/A		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.	8
		and externally.		intersects with	Responsible, Accountable, Supportive, Consulted & Informed	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	8
				subset of	(RASCI) Matrix Cybersecurity & Data Protection Governance	GOV 01	stakeholders and External Service Providers (ESPs). Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10
				Subset UI	Program Steering Committee &		Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	.,
				intersects with	Program Oversight	GOV-01.1	cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to establish, maintain and disseminate cybersecurity & data	5
				intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	protection policies, standards and procedures.	5
				<u> </u>	1		<u> </u>	<u> </u>



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
GV.SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and	Functional	intersects with	Defining Business Context & Mission	GOV-08	Mechanisms exist to define the context of its business model and document the organization's mission.	(optional) 5	
		improvement processes.		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	
				intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
				intersects with	Supply Chain Risk Management (SCRM) Plan		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	
				intersects with	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	5	
				intersects with	Asset-Service Dependencies Third-Party Management	AST-01.1 TPM-01	Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function. Mechanisms exist to facilitate the implementation of third-party management	5	
GV.SC-04	N/A	Suppliers are known and prioritized by criticality.	Functional	intersects with	Third-Party Inventories	TPM-01.1	controls. 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	
				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	
				intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5	
				intersects with	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 obligations.	5	
				intersects with	Adequate Security for Sensitive / Regulated Data In Support of	IAO-03.2	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		intersects with	Contracts Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
GV.SC-05	N/A	established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
				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	
				intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to	5	
				intersects with	Contract Flow-Down Requirements	TPM-05.2	protect its systems, 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	
				intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
				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	
				intersects with	Supply Chain Protection		Mechanisms exist to evaluate security risks associated with the services and product supply chain. Mechanisms exist to utilize security safeguards to limit harm from potential	5	
				intersects with	Limit Potential Harm Processes To Address Weaknesses or	TPM-03.2	adversaries who identify and target the organization's supply chain. Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
				intersects with	Deficiencies Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the organization's systems and data.	5	
				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	
				intersects with	Conflict of Interests Third-Party Processing,	TPM-04.3	Mechanisms exist to ensure that the interests of external service providers are consistent with and reflect organizational interests. Mechanisms exist to restrict the location of information processing/storage based	5	
				intersects with	Storage and Service Locations Third-Party Contract	TPM-04.4	on business requirements. Mechanisms exist to require contractual requirements for cybersecurity & data	5	
GV.SC-06	N/A	Planning and due diligence are performed to reduce risks before entering into formal supplier or other third-party relationships.	Functional	intersects with	Requirements Contract Flow-Down		privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data. Mechanisms exist to ensure cybersecurity & data privacy requirements are	5	
		entering into format supplier of other time party relationships.		intersects with	Requirements Third-Party		included in contracts that flow-down to applicable sub-contractors and suppliers. Mechanisms exist to ensure External Service Providers (ESPs) use unique	5	
				intersects with	Authentication Practices Responsible,	TPM-05.3	authentication factors for each of its customers. Mechanisms exist to document and maintain a Responsible, Accountable,	5	
				intersects with	Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
				intersects with	Third-Party Scope Review		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	5	
							business practices, compliance obligations, technologies and stakeholders. Mechanisms exist to obtain a First-Party Declaration (1PD) from applicable External Services Provides (FSPs) that provides accounts a compliance with a position.		
				intersects with	First-Party Declaration (1PD)		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	
				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	
				intersects with	Third-Party Personnel Security Third-Party Deficiency	TPM-09	Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers. Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
				intersects with	Remediation Third-Party Management		identified during independent or organizational assessments of such elements. Mechanisms exist to facilitate the implementation of third-party management controls.	5	
					, ,		Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity,	_	
				intersects with	Third-Party Inventories	1PM-01.1	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	
				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. Mechanisms exist to evaluate security risks associated with the services and	5	
		The risks nosed by a supplier, their products and comises and states		intersects with	Supply Chain Protection	TPM-03	product supply chain. Mechanisms exist to utilize security safeguards to limit harm from potential	5	
GV.SC-07	N/A	The risks posed by a supplier, their products and services, and other third parties are understood, recorded, prioritized, assessed, responded to, and monitored over the course of the relationship.	Functional	intersects with	Limit Potential Harm Processes To Address	TPM-03.2	adversaries who identify and target the organization's supply chain. Mechanisms exist to address identified weaknesses or deficiencies in the security	5	
				intersects with	Weaknesses or Deficiencies		of the supply chain Mechanisms exist to mitigate the risks associated with third-party access to the	5	
				intersects with	Third-Party Services Third-Party Risk		organization's systems and data. Mechanisms exist to conduct a risk assessment prior to the acquisition or	5	
				intersects with	Assessments & Approvals Review of Third-Party		outsourcing of technology-related services. Mechanisms exist to monitor, regularly review and assess External Service	5	
				intersects with	Services	TPM-08	Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	





FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional)	
					Asset-Service	407.04.4	Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function.	(optional)	
				intersects with	Dependencies	AST-01.1		5	
				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	
					& involvement		Mechanisms exist to perform inventories of technology assets that:		
							 (1) Accurately reflects the current systems, applications and services in use; (2) Identifies authorized software products, including business justification details; (3) Is at the level of granularity deemed necessary for tracking and reporting; 	;	
				intersects with	Asset Inventories	AST-02	(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and	5	
							(5) Is available for review and audit by designated organizational personnel.Mechanisms exist to ensure asset ownership responsibilities are assigned, tracked		
				intersects with	Asset Ownership Assignment	AST-03	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	\$	
				intersects with	Accountability Information	AST-03.1	inventory process.	5	
				intersects with	Human Resources	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	E	
				intersects with	Security Management	HK5-01		5	
		Assets (e.g., data, hardware, software, systems, facilities, services,		intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
ID.AM	N/A	people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional		nesponsibilities		Mechanisms exist to require all employees and contractors to apply cybersecurity		
				intersects with	Terms of Employment	HRS-05	& data privacy principles in their daily work.	5	
								Mechanisms exist to define acceptable and unacceptable rules of behavior for the	
				intersects with	Rules of Behavior	HRS-05.1	use of technologies, including consequences for unacceptable behavior.	5	
					Physical & Environmental		Mechanisms exist to facilitate the operation of physical and environmental protection controls.		
				intersects with	Protections	PES-01		5	
					Risk-Based Security		Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document the security categorization results (including supporting rationale) in		
				intersects with	Categorization	RSK-02	the security plan for systems; and (2) Ensure the security categorization decision is reviewed and approved by the	5	
					Ti i B i M	TDM 04	Mechanisms exist to facilitate the implementation of third-party management controls.	_	
				intersects with	Third-Party Management	TPM-01		5	
				intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications,	5	
							services and data. Mechanisms exist to document and maintain a Responsible, Accountable,		
				intersects with	Responsible, Accountable, Supportive, Consulted & Informed	TPM-05.4	Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
						(RASCI) Matrix		Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.	
				intersects with	Third-Party Personnel Security	TPM-06	rotes and responsibilities for tilliu-party providers.	5	
							Mechanisms exist to perform inventories of technology assets that: (1) Accurately reflects the current systems, applications and services in use;		
				subset of	Asset Inventories	AST-02	(2) Identifies authorized software products, including business justification details;(3) Is at the level of granularity deemed necessary for tracking and reporting;(4) Includes organization-defined information deemed necessary to achieve	10	
ID.AM-01	N/A	Inventories of hardware managed by the organization are maintained.	Functional				effective property accountability; and (5) Is available for review and audit by designated organizational personnel.		
				intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications,	5	
							services and data. Mechanisms exist to perform inventories of technology assets that:		
				subset of	Asset Inventories	AST-02	 (1) Accurately reflects the current systems, applications and services in use; (2) Identifies authorized software products, including business justification details; (3) Is at the level of granularity deemed necessary for tracking and reporting; 	10	
ID.AM-02	N/A	Inventories of software, services, and systems managed by the organization are maintained.	Functional				(4) Includes organization-defined information deemed necessary to achieve effective property accountability; and(5) Is available for review and audit by designated organizational personnel.		
				interest	Third Doct Law	TDM 04	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity,	5	
				intersects with	Third-Party Inventories	1 PM-01.1	Availability and/or Safety (CIAS) of the organization's systems, applications, services and data. Mechanisms exist to maintain network architecture diagrams that:	5	
				intersects with	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	(1) Contain sufficient detail to assess the security of the network's architecture; (2) Reflect the current architecture of the network environment; and (3) Document all sensitive/regulated data flows.	5	
ID.AM-03	N/A	Representations of the organization's authorized network communication and internal and external network data flows are	Functional	interpoets with	Control Applicability	ACT O.4.5	Mechanisms exist to ensure control applicability is appropriately-determined for	5	
		maintained.		intersects with	Representation	A01-04.2	systems, applications, services and third parties by graphically representing applicable boundaries. Mechanisms exist to inventory, document and maintain data flows for data that is		
				intersects with	Geographic Location of Data	DCH-19	resident (permanently or temporarily) within a service's geographically distributed applications (physical and virtual), infrastructure, systems components and/or shared with other third-parties.	5	
ID.AM-04	N/A	Inventories of services provided by suppliers are maintained.	Functional	equal	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,	10	
					Asset Scope		services and data. Mechanisms exist to determine cybersecurity & data privacy control applicability by identifying, assigning and documenting the appropriate asset scope categorization		
				intersects with	Classification	AST-04.1	for all systems, applications, services and personnel (internal and third-parties).	5	
ID.AM-05	N/A	Assets are prioritized based on classification, criticality, resources, and impact on the mission.	Functional	intersects with	Identify Critical Assets Data & Asset	BCD-02 DCH-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions. Mechanisms exist to ensure data and assets are categorized in accordance with	5	
				intersects with	Classification Third-Party Criticality	TPM-02	applicable statutory, regulatory and contractual requirements. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process	5	
				microecis With	Assessments	1F1Y1-UZ	relative to their importance in supporting the delivery of high-value services. Mechanisms exist to:		
				intersects with	Media Storage	DCH-06	 (1) Physically control and securely store digital and non-digital media within controlled areas using organization-defined security measures; and (2) Protect system media until the media are destroyed or sanitized using approved 	5	
							equipment, techniques and procedures.		



Set Theory Relationship Mapping (STRM)

FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
			Nationale	intersects with	Sensitive Data	DCH-06.2	Mechanisms exist to maintain inventory logs of all sensitive media and conduct	(optional) 5	
				intersects with	Inventories Periodic Scans for Sensitive / Regulated		sensitive media inventories at least annually. Mechanisms exist to periodically scan unstructured data sources for sensitive/regulated data or data requiring special protection measures by statutory,	5	
ID AM 07	NI/A	Inventories of data and corresponding metadata for designated data	Forestional	intersects with	Data	DC11-00.3	regulatory or contractual obligations. Mechanisms exist to:	J	
ID.AM-07	N/A	types are maintained.	Functional				(1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law;		
				intersects with	Personal Data (PD) Retention & Disposal	PRI-05	(2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and	5	
					·		(3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).		
					La contract (Dominal)		Mechanisms exist to establish and maintain a current inventory of all systems,		
				intersects with	Inventory of Personal Data (PD)	PRI-05.5	applications and services that collect, receive, process, store, transmit, update and/or share Personal Data (PD).	5	
				subset of	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 involve pertinent stakeholders of critical systems,	10	
				intersects with	Stakeholder Identification & Involvement	AST-01.2	applications and services to support the ongoing secure management of those assets.	5	
				intersects with	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	5	
ID.AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	intersects with	Data Stewardship Secure Development Life	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	
				intersects with	Cycle (SDLC) Management		Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
				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	
				intersects with	Technology Lifecycle Management Cybersecurity & Data	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
				subset of	Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
				intersects with	Steering Committee &	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	5	
				intersects with	Program Oversight		cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	, , , , , , , , , , , , , , , , , , ,	
ID.RA	N/A	The cybersecurity risk to the organization, assets, and individuals is understood by the organization.	Functional	intersects with	Publishing Cybersecurity & Data Protection	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
				intersects with	Documentation Risk Management	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and	5	
				croocts with	Program Supply Chain Risk		tactical risk management controls. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM)		
				intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
				intersects with	Information Assurance	IAO-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy	5	
				mitorsects with	(IA) Operations	170-01	assessment and authorization controls. Mechanisms exist to formally assess the cybersecurity & data privacy controls in	<u> </u>	
				intersects with	Assessments	IAO-02	systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting	5	
							expected requirements. Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar		
				intersects with	Plan of Action & Milestones (POA&M)	IAO-05	risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or	5	
				intersects with	Risk Assessment	RSK-04	eliminate known vulnerabilities. Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure,	5	
ID.RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Risk Register	RSK-04.1	disruption, modification or destruction of the organization's systems and data. Mechanisms exist to maintain a risk register that facilitates monitoring and		
ID.IIA VI	IWA	valuetabilities in assets are identified, valuated, and recorded.	Tunotonat	intersects with	nisk negister	N3K-04.1	reporting of risks. Mechanisms exist to require system developers/integrators consult with		
					Cybersecurity & Data		cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;		
				intersects with	Privacy Testing Throughout Development		(2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and	5	
							(3) Document the results of the security testing/evaluation and flaw remediation processes.		
				subset of	Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
					(VPMP) Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine	5	
				intersects with	vullerability Scanning		vulnerability scanning of systems and applications. Mechanisms exist to establish contact with selected groups and associations		
					Contacts With Groups &		within the cybersecurity & data privacy communities to: (1) Facilitate ongoing cybersecurity & data privacy education and training for organizational personnel;		
ID.RA-02	N/A	Cyber threat intelligence is received from information sharing forums	Functional	intersects with	Associations	GOV-07	(2) Maintain currency with recommended cybersecurity & data privacy practices, techniques and technologies; and	5	
ID.RA-02	IN/A	and sources.	Functional				(3) Share current cybersecurity and/or data privacy-related information including threats, vulnerabilities and incidents.		
				intersects with	Threat Intelligence Feeds Feeds	THR-03	Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
					1 0003		Mechanisms exist to implement a threat intelligence program that includes a cross-		
				subset of	Threat Intelligence Feeds Program	THR-01	organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring,	10	
				intersects with	Indicators of Exposure (IOE)	THR-02	threat hunting, response and recovery activities. Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
				interposits	Threat Intelligence Feeds	TUD 00	Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures	-	
ID.RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Feeds	THR-03	to facilitate the implementation of preventative and compensating controls.	J	
				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. Mechanisms exist to utilize security awareness training on recognizing and	5	
				intersects with	Insider Threat Awareness	THR-05	reporting potential indicators of insider threat. Mechanisms exist to perform cyber threat hunting that uses Indicators of	5	
				intersects with	Threat Hunting	THR-07	Compromise (IoC) to detect, track and disrupt threats that evade existing security controls.	5	
				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. Mechanisms exist to develop and keep current a catalog of applicable internal and	5	
ID.RA-04	N/A	Potential impacts and likelihoods of threats exploiting vulnerabilities are identified and recorded.	Functional	intersects with	Threat Catalog Threat Analysis	THR-09	external threats to the organization, both natural and manmade. Mechanisms exist to identify, assess, prioritize and document the potential	5	
					imeat Allatysis	10	impact(s) and likelihood(s) of applicable internal and external threats. Mechanisms exist to identify: (1) Assumptions offseting risk appearaments, risk response and risk manitoring:	, J	
				intersects with	Risk Framing	RSK-01.1	(1) Assumptions affecting risk assessments, risk response and risk monitoring;(2) Constraints affecting risk assessments, risk response and risk monitoring;(3) The organizational risk tolerance; and	5	
				I I I I I I I I I I I I I I I I I I I			(4) Priorities, benefits and trade-offs considered by the organization for managing risk.		
				intersects with	Impact-Level	RSK-02.1	Mechanisms exist to prioritize the impact level for systems, applications and/or	5	
				intersects with	Prioritization Risk Assessment		services to prevent potential disruptions. Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure,	5	
ID.RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to	Functional				disruption, modification or destruction of the organization's systems and data. Mechanisms exist to identify and assign a risk ranking to newly discovered security		
		understand inherent risk and inform risk response prioritization.		intersects with	Risk Ranking Risk Remediation	RSK-05 RSK-06	vulnerabilities that is based on industry-recognized practices. Mechanisms exist to remediate risks to an acceptable level.	5	
				intersects with	Risk Response		Mechanisms exist to respond to findings from cybersecurity & data privacy assessments, incidents and audits to ensure proper remediation has been	5	
					Indicators of Exposure	THR-02	performed. Mechanisms exist to develop Indicators of Exposure (IOE) to understand the	-	
		I		intersects with	(IOE)	I I I K-02	potential attack vectors that attackers could use to attack the organization.	5	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional) (optional)
				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
				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: (1) Assumptions affecting risk assessments, risk response and risk monitoring;	
				intersects with	Risk Framing	RSK-01.1	 (2) Constraints affecting risk assessments, risk response and risk monitoring; (3) The organizational risk tolerance; and (4) Priorities, benefits and trade-offs considered by the organization for managing 	5
							risk.	
ID.RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and	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
		communicated.		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. Mechanisms exist to remediate risks to an acceptable level.	5
				intersects with	Risk Remediation	RSK-06	Mechanisms exist to respond to findings from cybersecurity & data privacy	5
				intersects with	Risk Response	RSK-06.1	assessments, incidents and audits to ensure proper remediation has been performed.	5
				intersects with	Compensating Countermeasures Change Management	RSK-06.2	Mechanisms exist to identify and implement compensating countermeasures to reduce risk and exposure to threats. Mechanisms exist to facilitate the implementation of a change management	5
				subset of	Program Configuration Change	CHG-01	program. Mechanisms exist to facilitate the implementation of a change management program. Mechanisms exist to govern the technical configuration change control processes.	10
				intersects with	Control Prohibition Of Changes	CHG-02 1	Mechanisms exist to prohibit unauthorized changes, unless organization-approved	5
					Test Validate &		change requests are received. Mechanisms exist to appropriately test and document proposed changes in a non-	
ID.RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Document Changes Security Impact Analysis		production environment before changes are implemented in a production environment. Mechanisms exist to analyze proposed changes for potential security impacts,	5
				intersects with	for Changes Access Restriction For	CHG-03	prior to the implementation of the change. Mechanisms exist to enforce configuration restrictions in an effort to restrict the	5
				intersects with	Change		ability of users to conduct unauthorized changes. Mechanisms exist to prohibit exceptions to standards, except when the exception	
				intersects with	Exception Management	GOV-02.1	has been formally assessed for risk impact, approved and recorded. Mechanisms exist to implement a threat intelligence program that includes a cross-	5
				intersects with	Threat Intelligence Feeds Program	THR-01	organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring,	5
				intersects with	Indicators of Exposure	THR-02	threat hunting, response and recovery activities. Mechanisms exist to develop Indicators of Exposure (IOE) to understand the	5
				intersects with	(IOE)	111N-02	potential attack vectors that attackers could use to attack the organization. Mechanisms exist to maintain situational awareness of vulnerabilities and evolving	
ID.RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Threat Intelligence Feeds Feeds	THR-03	threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5
				intersects with	Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	5
				intersects with	(VPMP) Vulnerability Remediation		Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and	5
					Process Vulnerability Ranking		remediated. Mechanisms exist to identify and assign a risk ranking to newly discovered security	
				intersects with	Logical Tampering		vulnerabilities using reputable outside sources for security vulnerability information. Mechanisms exist to verify logical configuration settings and the physical integrity	5
				intersects with	Protection	AST-15	of critical technology assets throughout their lifecycle. Mechanisms exist to provision and protect the confidentiality, integrity and	5
				intersects with	Roots of Trust Protection	AST-18	authenticity of product supplier keys and data that can be used as a "roots of trust" basis for integrity verification.	5
			intersects with	Technology Development & Acquisition	TDA-01	Mechanisms exist to facilitate the implementation of tailored development and acquisition strategies, contract tools and procurement methods to meet unique business needs.	5	
ID.RA-09	N/A	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
					Updates Developer Configuration		Mechanisms exist to require system developers and integrators to perform	
				intersects with	Management Software / Firmware	TDA-14	configuration management during system design, development, implementation and operation. Mechanisms exist to require developer of systems, system components or services	5
				intersects with	Integrity Verification Hardware Integrity	TDA-14.1	to enable integrity verification of software and firmware components. Mechanisms exist to require developer of systems, system components or services	5
				intersects with	Verification	TDA-14.2	to enable integrity verification of hardware components. Mechanisms exist to maintain a current, accurate and complete list of External	5
				intersects with	Third-Party Inventories	TPM-01.1	Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications,	5
ID.RA-10	N/A	Critical suppliers are assessed prior to acquisition.	Functional		Third-Party Criticality		services and data. Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process	
				intersects with	Assessments	TPM-02	relative to their importance in supporting the delivery of high-value services.	5
				intersects with	Third-Party Risk Assessments &	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5
				intersects with	Approvals Operations Security	OPS-01	Mechanisms exist to facilitate the implementation of operational security controls.	5
				intersects with		013-01	Mechanisms exist to identify and document Standardized Operating Procedures	
		Improvements to organizational cybersecurity risk management		intersects with	Standardized Operating Procedures (SOP)	OPS-01.1	(SOP), or similar documentation, to enable the proper execution of day-to-day / assigned tasks.	5
ID.IM	N/A	processes, procedures and activities are identified across all CSF Functions.	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10
					Supply Chain Risk		Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of	
				intersects with	Management (SCRM) Plan	RSK-09	systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5
					Cybernogurity 9 Det		Mechanisms exist to ensure managers regularly review the processes and	
				intersects with	Cybersecurity & Data Protection Assessments	CPL-03	documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5
				intersects with	Functional Review Of Cybersecurity & Data	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5
					Protection Controls		Mechanisms exist to formally assess the cybersecurity & data privacy controls in	
				intersects with	Assessments	IAO-02	systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting	5
					Sacurity Accessor		expected requirements. Mechanisms exist to produce a Security Assessment Report (SAR) at the	
				intersects with	Security Assessment Report (SAR)	IAO-02.4	conclusion of a security assessment to certify the results of the assessment and assist with any remediation actions.	5
	ID.IM-01 N/A Improvements are identified from evaluations.			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	5
ID.IM-01		Improvements are identified from evaluations.	Functional		intestones (POA&M)		eliminate known vulnerabilities. Mechanisms exist to require system developers/integrators consult with	
							cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar	
				intersects with	Cybersecurity & Data Privacy Testing Throughout Dayslopment	TDA-09	capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and	5
				Throughout Development		deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation		
					Continuous March		Mechanisms exist to require the developers of systems, system components or	
			intersects with	Continuous Monitoring Plan	TDA-09.1	services to produce a plan for the continuous monitoring of cybersecurity & data privacy control effectiveness.	5	
		-	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	
				intersects with	Review of Third-Party	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for	5
]	Services		cybersecurity & data privacy controls.	



Set Theory Relationship Mapping (STRM)

FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional)
				intersects with	Contingency Plan Root Cause Analysis (RCA) &	BCD-05	Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.	(optional) 5
					Lessons Learned		Mechanisms exist to ensure managers regularly review the processes and	
				intersects with	Cybersecurity & Data Protection Assessments	CPL-03	documented procedures within their area of responsibility to adhere to appropriate cybersecurity & data protection policies, standards and other applicable requirements.	5
				intersects with	Functional Review Of Cybersecurity & Data	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5
					Protection Controls		Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP)	
				intersects with	Assessments	IAO-02	activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting	5
				intersects with	Security Assessment	IAO-02.4	expected 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	5
					Report (SAR) Plan of Action &		assist with any remediation actions. 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	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third	Functional	intersects with	Milestones (POA&M)	IAO-05	deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	5
		parties.		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
							Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to:	
				intersects with	Cybersecurity & Data Privacy Testing	TDA-09	(1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability;(2) Implement a verifiable flaw remediation process to correct weaknesses and	5
					Throughout Development		deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation	
					Continuous Monitoring		Mechanisms exist to require the developers of systems, system components or	
				intersects with	Plan Third-Party Risk	TDA-09.1	services to produce a plan for the continuous monitoring of cybersecurity & data privacy control effectiveness. Mechanisms exist to conduct a risk assessment prior to the acquisition or	5
				intersects with	Assessments & Approvals	TPM-04.1	outsourcing of technology-related services.	5
				intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5
				intersects with	Measures of Performance Contingency Plan Root	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance. Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned"	5
ID.IM-03	N/A	Improvements are identified from execution of operational processes, procedures, and activities.	Functional	intersects with	Cause Analysis (RCA) & Lessons Learned	BCD-05	activity every time the contingency plan is activated.	5
				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
				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	5
					(BCMS) Ongoing Contingency		Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks). Mechanisms exist to keep contingency plans current with business needs,	
ID.IM-04	N/A	Incident response plans and other cybersecurity plans that affect operations are established, communicated, maintained, and improved.	Functional	intersects with	Planning	BCD-06	technology changes and feedback from contingency plan testing activities. Mechanisms exist to maintain and make available a current and viable Incident	5
				intersects with	Incident Response Plan (IRP)	IRO-04	Response Plan (IRP) to all stakeholders.	5
			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 necessary.	5	
				subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10
				intersects with	Steering Committee &	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key	5
					Program Oversight		cybersecurity, data privacy and business executives, which meets formally and on a regular basis. Mechanisms exist to facilitate the identification and implementation of relevant	
PR	N/A	Safeguards to manage the organization's cybersecurity risks are used.	Functional	intersects with	Statutory, Regulatory & Contractual Compliance Risk Management	CPL-01	statutory, regulatory and contractual controls. Mechanisms exist to facilitate the implementation of strategic, operational and	5
				intersects with	Program	RSK-01	tactical risk management controls. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM)	5
				intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5
				i de la constanta de la consta	Identity & Access	14.0.04	Mechanisms exist to facilitate the implementation of identification and access	
				intersects with	Management (IAM) Authenticate, Authorize	IAC-01	management controls. Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit	5
				intersects with	and Audit (AAA)	IAC-01.2	(AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP). Mechanisms exist to facilitate the operation of physical and environmental	5
PR.AA	N/A	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	protection controls.	5
				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
				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	5
					Identification &		accessible). Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and	
				intersects with	Authentication for Organizational Users Identification &	IAC-02	Audit (AAA) organizational users and processes acting on behalf of organizational users. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and	5
PR.AA-01	N/A	Identities and credentials for authorized users, services, and hardware	Functional	intersects with	Authentication for Non- Organizational Users Identification &	IAC-03	Audit (AAA) third-party users and processes that provide services to the organization. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and	5
1 11.74-01	IVA	are managed by the organization.	. anononal	intersects with	Authentication & Devices	IAC-04	Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.	5
				intersects with	Identification & Authentication for Third	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5
PR.AA-02	N/A	Identities are proofed and bound to credentials based on the context of	Functional		Party Systems & Services Identity Proofing (Identity Varification)	IAC-28	Mechanisms exist to verify the identity of a user before issuing authenticators or	10
		interactions.		subset of	Verification) Authenticate, Authorize		modifying access permissions. 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	10
				intersects with	and Audit (AAA) Identification & Authentication for	IAC-02	(ESP). Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational	5
					Organizational Users Identification &		users. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and	
PR.AA-03	N/A	Users, services, and hardware are authenticated.	Functional	intersects with	Authentication for Non- Organizational Users Identification &	IAC-03	Audit (AAA) third-party users and processes that provide services to the organization. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and	5
				intersects with	Authentication for Devices	IAC-04	Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.	5
				intersects with	Identification & Authentication for Third	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5
				intersects with	Party Systems & Services Authenticate, Authorize	ΙΔΩ-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	5
PR.AA-04	N/A	Identity assertions are protected, conveyed, and verified.	Functional	intersects with	and Audit (AAA) Replay-Resistant	IAC-01.2	(AAA) solutions, both on-premises and those nosted by an External Service Provider (ESP). Automated mechanisms exist to employ replay-resistant authentication.	5
		, , , , , , , , , , , , , , , , , , , ,		intersects with	Authentication Acceptance of External		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	5
				<u>l</u>	Authenticators		of accepted external authenticators.	



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			- Radonale	intersects with	Position Categorization	HRS-02	Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for individuals filling those	(optional) 5	
				intersects with	Separation of Duties		positions. Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent	3	
				intersects with	(SoD)	HRS-11	potential inappropriate activity without collusion. Mechanisms exist to facilitate the implementation of identification and access	5	
				subset of	Identity & Access Management (IAM)	IAC-01	management controls.	10	
				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		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	5	
PR.AA-05	N/A	policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	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	5	
				intersects with	Organizational Users Identification & Authentication for	IAC-04	organization. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional	5	
					Devices Identification &		authentication that is cryptographically- based and replay resistant. Mechanisms exist to identify and authenticate third-party systems and services.		
				intersects with	Authentication for Third Party Systems & Services	IAC-05		5	
				intersects with	Role-Based Access Control (RBAC)	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to-know and fine-grained access control for sensitive/regulated data access.	5	
				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	5	
				subset of	Physical & Environmental Protections	PES-01	organizational business functions. Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
				intersects with	Physical Access	PES-02	Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the	5	
PR.AA-06	N/A	Physical access to assets is managed, monitored, and enforced commensurate with risk.	Functional	intersects with	Authorizations Role-Based Physical	PES-02.1	facility officially designated as publicly accessible). Physical access control mechanisms exist to authorize physical access to facilities	5	
					Access		based on the position or role of the individual. Physical access control mechanisms exist to enforce physical access authorizations for all physical access points (including designated entry/exit points)		
				intersects with	Physical Access Control	PES-03	to facilities (excluding those areas within the facility officially designated as publicly accessible).	5	
				subset of	Cybersecurity & Data Privacy-Minded Workforce	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	10	
PR.AT	N/A	The organization's personnel are provided with cybersecurity awareness and training so that they can perform their cybersecurity-	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	
11.71	10/1	related tasks.	Tanotionat		Role-Based Cybersecurity		Mechanisms exist to provide role-based cybersecurity & data privacy-related training:		
				intersects with	& Data Privacy Training	SAT-03	(1) Before authorizing access to the system or performing assigned duties;(2) When required by system changes; and(3) Annually thereafter.	5	
				intersects with	Cybersecurity & Data Privacy Awareness	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	5	
		Personnel are provided with awareness and training so that they			Training Role-Based Cybersecurity		Mechanisms exist to provide role-based cybersecurity & data privacy-related training:		
PR.AT-01	N/A	possess the knowledge and skills to perform general tasks with cybersecurity risks in mind.	Functional	intersects with	& Data Privacy Training	SAT-03	(1) Before authorizing access to the system or performing assigned duties;(2) When required by system changes; and(3) Annually thereafter.	5	
				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	5	
					Role-Based Cybersecurity		in day-to-day business operations. Mechanisms exist to provide role-based cybersecurity & data privacy-related training:		
				intersects with	& Data Privacy Training	SAT-03	(1) Before authorizing access to the system or performing assigned duties;(2) When required by system changes; and(3) Annually thereafter.	5	
22.47.00		Individuals in specialized roles are provided with awareness and		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	
PR.AT-02	N/A	training so that they possess the knowledge and skills to perform relevant tasks with cybersecurity risks in mind.	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	5	
					Continuing Professional Education (CPE) -		in day-to-day business operations. Mechanisms exist to ensure cybersecurity & data privacy personnel receive Continuing Professional Education (CPE) training to maintain currency and		
				intersects with	Cybersecurity & Data Privacy Personnel	SAT-03.7	proficiency with industry-recognized secure practices that are pertinent to their assigned roles and responsibilities.	5	
				subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
				intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	
				intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
22.20	N/A	Data are managed consistent with the organization's risk strategy to	5	intersects with	Sensitive / Regulated	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	5	
PR.DS	N/A	protect the confidentiality, integrity, and availability of information.	Functional		Media Records Defining Access		incident. Mechanisms exist to explicitly define authorizations for specific individuals and/or roles for logical and /or physical access to sensitive/regulated data.		
				intersects with	Authorizations for Sensitive/Regulated Data	DCH-01.4		5	
				intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	5	
				intersects with	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	5	
				subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
PR.DS-01	N/A	The confidentiality, integrity, and availability of data-at-rest are	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	
		protected.		intersects with	Alternate Physical Protection	CRY-01.1	Cryptographic mechanisms exist to prevent unauthorized disclosure of information as an alternative to physical safeguards.	5	
				intersects with	Encrypting Data At Rest Data Protection	CRY-05 DCH-01	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest. Mechanisms exist to facilitate the implementation of data protection controls.	5 10	
				intersects with	Use of Cryptographic		Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
PR.DS-02	N/A	The confidentiality, integrity, and availability of data-in-transit are protected.	Functional	intersects with	Controls Transmission	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being	5	
				intersects with	Confidentiality Transmission Integrity	CRY-04	transmitted. Cryptographic mechanisms exist to protect the integrity of data being transmitted.	5	
				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	10	
		The confidentiality, integrity, and availability of data-in-use are		intersects with	Use of Cryptographic Controls	CRY-01	controls using known public standards and trusted cryptographic technologies.	5	
PR.DS-10	N/A	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	
				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	5	
				interposts with	Data Pasisin-	BCD-11	organizational 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	E	
				intersects with	Data Backups Testing for Reliability &		the data to satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs). Mechanisms exist to routinely test backups that verify the reliability of the backup	5	
PR.DS-11	N/A	Backups of data are created, protected, maintained, and tested.	Functional	intersects with	Integrity	BCD-11.1	process, as well as the integrity and availability of the data.	5	



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				intersects with	Test Restoration Using Sampling	BCD-11.5	Mechanisms exist to utilize sampling of available backups to test recovery capabilities as part of business continuity plan testing.	(optional) 5	
				intersects with	Transfer to Alternate	BCD-11.6	Mechanisms exist to transfer backup data to the alternate storage site at a rate that is capable of meeting both Recovery Time Objectives (RTOs) and Recovery Point	5	
					Storage Site		Objectives (RPOs). Mechanisms exist to facilitate the implementation of configuration management		
				intersects with	Configuration Management Program	CFG-01	controls.	5	
					System Hardening		Mechanisms exist to develop, document and maintain secure baseline		
				intersects with	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
							Mechanisms exist to review and update baseline configurations: (1) At least annually;		
PD 00		The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are		intersects with	Reviews & Updates	CFG-02.1	(2) When required due to so; or (3) As part of system component installations and upgrades.	5	
PR.PS	N/A	managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intercepts with	Configure Systems, Components or Services	OFO 02 F	Mechanisms exist to configure systems utilized in high-risk areas with more restrictive baseline configurations.	E	
				intersects with	for High-Risk Areas			5	
				intersects with	Maintenance Operations		Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	5	
					·		Machaniana avietta applicat applicat applicat application and a still ities through a stable		
				intersects with	Controlled Maintenance		Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
DD D0 04	N/A				Configuration	050.01	Mechanisms exist to facilitate the implementation of configuration management	40	
PR.PS-01	N/A	Configuration management practices are established and applied.	Functional	equal intersects with	Management Program Maintenance Operations	CFG-01 MNT-01	controls. Mechanisms exist to develop, disseminate, review & update procedures to	10	
				intersects with	Controlled Maintenance		facilitate the implementation of maintenance controls across the enterprise. Mechanisms exist to conduct controlled maintenance activities throughout the	5	
				intersects with	Timely Maintenance	MNT-03	lifecycle of the system, application or service. Mechanisms exist to obtain maintenance support and/or spare parts for systems	5	
				intersects with	Preventative Maintenance	MNT-03.1	within a defined Recovery Time Objective (RTO). Mechanisms exist to perform preventive maintenance on critical systems, applications and services.	5	
				intersects with	Secure Development Life Cycle (SDLC)	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
				intersects with	Management Technology Lifecycle	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
PR.PS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Management	3LA-07.1	Mechanisms exist to prevent unsupported systems by:	3	
				intersects with	Unsupported Systems	TDA-17	(1) Replacing systems when support for the components is no longer available from the developer, vendor or manufacturer; and	5	
					Vulnerability & Patch		(2) Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs. Mechanisms exist to facilitate the implementation and monitoring of vulnerability		
				intersects with	Management Program (VPMP)	VPM-01	management controls.	5	
				intersects with	Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface management activities.	5	
				intersects with	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
				intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
				intersects with	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise. Mechanisms exist to conduct controlled maintenance activities throughout the	5	
				intersects with	Controlled Maintenance		lifecycle of the system, application or service. Mechanisms exist to obtain maintenance support and/or spare parts for systems	5	
				intersects with	Timely Maintenance Preventative	MNT-03 MNT-03.1	within a defined Recovery Time Objective (RTO). Mechanisms exist to perform preventive maintenance on critical systems,	5	
PR.PS-03	N/A	Hardware is maintained, replaced, and removed commensurate with	Functional	intersects with	Maintenance Secure Development Life		applications and services. Mechanisms exist to ensure changes to systems within the Secure Development	3	
	1,47,	risk.	Functional	intersects with	Cycle (SDLC) Management	PRM-07	Life Cycle (SDLC) are controlled through formal change control procedures.	5	
				intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets. Mechanisms exist to prevent unsupported systems by:	5	
				intersects with	Unsupported Systems	TDA-17	(1) Replacing systems when support for the components is no longer available from the developer, vendor or manufacturer; and	5	
							(2) Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs.		
				subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls. Mechanisms exist to generate, monitor, correlate and respond to alerts from	10	
				intersects with	System Generated Alerts	MON-01.4	physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
PR.PS-04	N/A	Log records are generated and made available for continuous monitoring.	Functional				Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum:		
		monitoring.		intersects with	Content of Event Logs	MON-03	(1) Establish what type of event occurred;(2) When (date and time) the event occurred;	5	
				mitorocoto with	Contont of Evont Eogo	11011 00	(3) Where the event occurred;(4) The source of the event;		
					Configuration		(5) The outcome (success or failure) of the event; and(6) The identity of any user/subject associated with the event.Mechanisms exist to facilitate the implementation of configuration management		
				intersects with	Configuration Management Program System Hardening	CFG-01	controls. Mechanisms exist to facilitate the implementation of configuration management controls.	5	
				intersects with	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
				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	N/A	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	5	
				intersects with	Software Execution User-Installed Software	CFG-05	software programs. Mechanisms exist to restrict the ability of non-privileged users to install unauthorized software.	5	
				intersects with	Prohibit Installation Without Privileged Status	END-03	Automated mechanisms exist to prohibit software installations without explicitly assigned privileged status.	5	
					Without Privileged Status Technology Development		Mechanisms exist to facilitate the implementation of tailored development and		
				intersects with	& Acquisition	TDA-01	acquisition strategies, contract tools and procurement methods to meet unique business needs. Machanisms exist to design and implement product management processes to	5	
				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	
				intersects with	Secure Coding	TDA-06	Mechanisms exist to develop applications based on secure coding principles.	5	
							Mechanisms exist to require the developer of the system, system component or		
	· ·		intersects with	Criticality Analysis	TDA-06.1	service to perform a criticality analysis at organization-defined decision points in the Secure Development Life Cycle (SDLC).	5		
PR.PS-06		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		
		performance is monitored throughout the software development life cycle.		intersects with	Software Assurance	TDA-06.3	Mechanisms exist to utilize a Software Assurance Maturity Model (SAMM) to govern a secure development lifecycle for the development of systems, applications and	5	
					Maturity Model (SAMM)	55.5	services. Mechanisms exist to require system developers/integrators consult with	_	
							cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar		
				intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and	5	
					Throughout Development		deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation		
				-	Cybersecurity & Data		processes. Mechanisms exist to facilitate the implementation of cybersecurity & data		
				subset of	Protection Governance Program	GOV-01	protection governance controls.	10	
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				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	5	
				intersects with	Risk Management Program	RSK-01	a regular basis. Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and	Functional	subset of	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services.	10	
		organizational resilience.		intersects with	Centralized Management of Cybersecurity & Data Privacy Controls	SEA-01.1	Mechanisms exist to centrally-manage the organization-wide management and implementation of cybersecurity & data privacy controls and related processes.	5	
				intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
				intersects with	Alignment With Enterprise Architecture	SEA-02	Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals,	5	
				subset of	Network Security Controls (NSC)	NET-01	other organizations. Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	10	
				intersects with	Layered Network Defenses	NET-02	Mechanisms exist to implement security functions as a layered structure that minimizes interactions between layers of the design and avoids any dependence by lower layers on the functionality or correctness of higher layers.	5	
PR.IR-01	N/A	Networks and environments are protected from unauthorized logical access 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	
				intersects with	Alignment With Enterprise Architecture	SEA-02	Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
				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	
				subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
				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	N/A	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 known to key personnel.	5	
				intersects with	Fire Protection	PES-08	Facility security mechanisms exist to utilize and maintain fire suppression and detection devices/systems for the system that are supported by an independent	5	
				intersects with	Temperature & Humidity Controls	PES-09	Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.	5	
				intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
				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. Mechanisms exist to facilitate the implementation of contingency planning	5	
				subset of	Business Continuity Management System (BCMS)	BCD-01	controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
		N/A Mechanisms are implemented to achieve resilience requirements in normal and adverse situations.	Functional	intersects with	Secure Engineering	SEA-01	Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development,	5	
PR.IR-03	N/A				Principles		implementation and modification of systems and services. Mechanisms exist to develop an enterprise architecture, aligned with industry-		
			intersects with	Alignment With Enterprise Architecture Achieving Resilience	SEA-02	recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations. Mechanisms exist to achieve resilience requirements in normal and adverse	5		
				intersects with	Requirements Capacity & Performance	SEA-01.2	situations. Mechanisms exist to facilitate the implementation of capacity management	5	
			subset of	Management	CAP-01	controls to ensure optimal system performance to meet expected and anticipated future capacity requirements. Mechanisms exist to control resource utilization of systems that are susceptible to	10		
				intersects with	Resource Priority	CAP-02	Denial of Service (DoS) attacks to limit and prioritize the use of resources.	5	
PR.IR-04	N/A	Adequate resource capacity to ensure availability is maintained.	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	
				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. Mechanisms exist to dynamically expand the resources available for services, as	5	
				intersects with	Elastic Expansion	CAP-05	demand conditions change. Mechanisms exist to implement a threat intelligence program that includes a cross-	5	
				subset of	Threat Intelligence Feeds Program	THR-01	organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	10	
				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. Mechanisms exist to maintain situational awareness of vulnerabilities and evolving	5	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	Functional	intersects with	Threat Intelligence Feeds Feeds	THR-03	threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
				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	5	
				intersects with	Threat Catalog	THR-09	controls. Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
				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	
				intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC). Mechanisms exist to detect and respond to anomalous behavior that could	5	
DE.CM	N/A	Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events.	Functional	intersects with	Anomalous Behavior Indicators of	MON-16 IRO-03	indicate account compromise or other malicious activities. Mechanisms exist to define specific Indicators of Compromise (IOC) to identify the	5	
				intersects with	Compromise (IOC) Indicators of Exposure (IOE)	THR-02	signs of potential cybersecurity events. Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
				subset of	(IOE) Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
				intersects with	Intrusion Detection & Prevention Systems (IDS & IPS)	MON-01.1	Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points.	5	
DE.CM-01	N/A	Networks and network services are monitored to find potentially adverse events.	Functional	intersects with	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	5	
				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	
				intersects with	Security Event Monitoring	MON-01.8	Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures.	5	
				intersects with	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	5	
DE.CM-02	N/A	The physical environment is monitored to find potentially adverse events.	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	
				intersects with	Physical Access Logs	PES-03.3	accessible). Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.	5	
				intersects with	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents. Mechanisms exist to facilitate the implementation of enterprise-wide monitoring	5	
				intersects with	Continuous Monitoring Anomalous Behavior	MON-01 MON-16	controls. Mechanisms exist to detect and respond to anomalous behavior that could	5	
		Personnel activity and technology usage are monitored to find	_	intersects with	Insider Threats	MON-16.1	indicate account compromise or other malicious activities. Mechanisms exist to monitor internal personnel activity for potential security incidents.	5	
DE.CM-03	N/A	potentially adverse events.	Functional	intersects with	Unauthorized Activities	MON-16.3	Mechanisms exist to monitor for unauthorized activities, accounts, connections, devices and software.	5	
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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
					DNG 9 Co		Mechanisms exist to force Internet-bound network traffic through a proxy device (e.g., Policy Enforcement Point (PEP)) for URL content filtering and DNS filtering to	(optional)	
				intersects with	DNS & Content Filtering	NF1-18	limit a user's ability to connect to dangerous or prohibited Internet sites.	5	
DE 014 00		External service provider activities and services are monitored to find		intersects with	Continuous Monitoring		Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls. Mechanisms exist to monitor third-party personnel activity for potential security	5	
DE.CM-06	N/A	potentially adverse events.	Functional	intersects with	Third-Party Threats Account Creation and	MON-16 4	incidents. Automated mechanisms exist to generate event logs for permissions changes to	5	
				intersects with	Modification Logging Continuous Monitoring	MON-01	privileged accounts and/or groups. Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	5	
				intersects with	File Integrity Monitoring (FIM)	MON-01.7	Mechanisms exist to utilize a File Integrity Monitor (FIM), or similar change- detection technology, on critical assets to generate alerts for unauthorized	5	
DE.CM-09	N/A	Computing hardware and software, runtime environments, and their data are monitored to find potentially adverse events.	Functional	intersects with	Endpoint Security	END-01	modifications. Mechanisms exist to facilitate the implementation of endpoint security controls.	5	
		data are monitored to find potentially adverse events.		intersects with	Malicious Code Protection (Anti-Malware)		Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
				intersects with	Endpoint File Integrity Monitoring (FIM)		Mechanisms exist to utilize File Integrity Monitor (FIM), or similar technologies, to detect and report on unauthorized changes to selected files and configuration	5	
				intersects with	Continuous Monitoring		settings. Mechanisms exist to facilitate the implementation of enterprise-wide monitoring	5	
							Mechanisms exist to review event logs on an ongoing basis and escalate incidents		
				intersects with	Security Event Monitoring		in accordance with established timelines and procedures. Mechanisms exist to automatically alert incident response personnel to	5	
				intersects with	Automated Alerts		inappropriate or anomalous activities that have potential security incident implications.	5	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity	Functional	subset of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
		incidents.					Mechanisms exist to cover: (1) Preparation;		
				intersects with	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;(3) Analysis;(4) Containment;	5	
							(5) Eradication; and(6) Recovery.Mechanisms exist to identify classes of incidents and actions to take to ensure the		
				intersects with	Incident Classification & Prioritization	IRO-02.4	continuation of organizational missions and business functions.	5	
							Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake;		
DE.AE-02	N/A	Potentially adverse events are analyzed to better understand associated activities.	Functional	intersects with	Incident Handling		(3) Analysis; (4) Containment;	5	
					Incident Classification &	100.00.4	(5) Eradication; and(6) Recovery.Mechanisms exist to identify classes of incidents and actions to take to ensure the		
				intersects with	Prioritization Centralized Collection of	IRO-02.4	continuation of organizational missions and business functions. Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar	5	
				intersects with	Security Event Logs		automated tool, to support the centralized collection of security-related event logs. Automated mechanisms exist to correlate both technical and non-technical	8	
				intersects with	Correlate Monitoring Information	141()141-()/. 1	information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	10	
DE.AE-03	N/A	Information is correlated from multiple sources.	Functional				Mechanisms exist to cover: (1) Preparation;		
		Information is correlated from multiple sources.		intersects with	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake; (3) Analysis;	3	
							(4) Containment;(5) Eradication; and(6) Recovery.		
				intersects with	Correlation with External Organizations	IRO-02.5	Mechanisms exist to coordinate with approved third-parties to achieve a cross- organization perspective on incident awareness and more effective incident responses.	5	
							Mechanisms exist to cover: (1) Preparation;		
				intersects with	Incident Handling		(2) Automated event detection or manual incident report intake;(3) Analysis;(4) Containment;	5	
DE.AE-04	N/A	The estimated impact and scope of adverse events are understood.	Functional				(5) Eradication; and (6) Recovery.		
				intersects with	Incident Classification & Prioritization	IRO-02.4 GOV-16	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions. Mechanisms exist to define materiality threshold criteria capable of designating an	5	
				intersects with intersects with	Materiality Determination Security Event Monitoring	MON-01.8	incident as material. Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures.	5	
				intersects with	Automated Alerts	MON- 01.12	Mechanisms exist to automatically alert incident response personnel to inappropriate or anomalous activities that have potential security incident	5	
				intersects with	Centralized Collection of		implications. Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar automated tool, to support the centralized collection of security-related event logs.	5	
				microcots with	Security Event Logs		Automated mechanisms exist to correlate both technical and non-technical	<u> </u>	
				intersects with	Correlate Monitoring Information	MON-02. I	information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	5	
							Mechanisms exist to cover: (1) Preparation;		
DE.AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Incident Handling		(2) Automated event detection or manual incident report intake;(3) Analysis;(4) Containment;	5	
					Incident Classicists of		(5) Eradication; and (6) Recovery.		
				intersects with	Incident Classification & Prioritization Incident Response Plan	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions. Mechanisms exist to maintain and make available a current and viable Incident	5	
				intersects with	(IRP) Integrated Security Incident Response Team		Response Plan (IRP) to all stakeholders. Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data	5	
					(ISIRT) Situational Awareness		privacy incident response operations. Mechanisms exist to document, monitor and report the status of cybersecurity &		
				intersects with	For Incidents		data privacy incidents to internal stakeholders all the way through the resolution of the incident. Mechanisms exist to timely-report incidents to applicable:	5	
				intersects with	Incident Stakeholder Reporting		(1) Internal stakeholders;(2) Affected clients & third-parties; and	5	
				b	Threat Intelligence Feeds		(3) Regulatory authorities. Mechanisms exist to implement a threat intelligence program that includes a crossorganization information-sharing capability that can influence the development of		
		Ouberthroat intelligence and all		subset of	Program	THK-UT	the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	10	
DE.AE-07	N/A	Cyber threat intelligence and other contextual information are integrated into the analysis.	Functional	intersects with	Threat Intelligence Feeds Feeds	THR-03	Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
				intersects with	Threat Analysis	THR-10	Mechanisms exist to identify, assess, prioritize and document the potential	5	
					. , ,		impact(s) and likelihood(s) of applicable internal and external threats. Mechanisms exist to cover: (1) Preparation;		
DE AE OS	NIA	Incidents are declared when adverse events meet the defined incident		intersects with	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;(3) Analysis;	5	
DE.AE-08	N/A	criteria.	Functional				(4) Containment;(5) Eradication; and(6) Recovery.		
				intersects with	Incident Classification & Prioritization		Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions. Mechanisms exist to implement and govern processes and documentation to	5	
				subset of	Incident Response Operations	IRO-01	facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship Notes (optional) (optional)
				intersects with	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and	5
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	Functional	intersects with	Incident Response Plan (IRP) Integrated Security	IRO-04	(6) Recovery. Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders. Mechanisms exist to establish an integrated team of cybersecurity, IT and business	5
				intersects with	Incident Response Team (ISIRT) Situational Awareness		function representatives that are capable of addressing cybersecurity & data privacy incident response operations. Mechanisms exist to document, monitor and report the status of cybersecurity &	5
				intersects with	For Incidents Incident Stakeholder	IRO-09	data privacy incidents to internal stakeholders all the way through the resolution of the incident. Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders;	5
				intersects with	Reporting	INO-10	(2) Affected clients & third-parties; and (3) Regulatory authorities. Mechanisms exist to cover: (1) Preparation;	
RS.MA	N/A	Responses to detected cybersecurity incidents are managed.	Functional	intersects with	Incident Handling	IRO-02	 (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery. 	5
				intersects with	Incident Response Plan (IRP) Integrated Security Incident Response Team		Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders. Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data	5
					(ISIRT) Incident Handling		privacy incident response operations. Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake;	
				intersects with		IRO-02	 (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery. Mechanisms exist to coordinate with approved third-parties to achieve a cross- 	5
RS.MA-01	N/A	The incident response plan is executed in coordination with relevant third parties once an incident is declared.	Functional	intersects with	Correlation with External 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	5
				intersects with	(IRP) Integrated Security		Response Plan (IRP) to all stakeholders. Mechanisms exist to establish an integrated team of cybersecurity, IT and business	5
				intersects with	Incident Response Team (ISIRT)		function representatives that are capable of addressing cybersecurity & data privacy incident response operations. Mechanisms exist to timely-report incidents to applicable:	5
				intersects with	Incident Stakeholder Reporting	IRO-10	(1) Internal stakeholders;(2) Affected clients & third-parties; and(3) Regulatory authorities.Mechanisms exist to cover:	5
RS.MA-02	N/A	Incident reports are triaged and validated.	Functional	intersects with	Incident Handling	IRO-02	 (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery. 	5
				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
RS.MA-03	N/A	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. Mechanisms exist to cover:	10
RS.MA-04	N/A	Incidents are escalated or elevated as needed.	Functional	intersects with	Incident Handling	IRO-02	 (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and 	5
				intersects with	Incident Response Plan (IRP)	IRO-04	(6) Recovery. Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5
				intersects with	Integrated Security Incident Response Team (ISIRT)		Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5
RS.MA-05	N/A	The criteria for initiating incident recovery are applied.	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
				intersects with	Recovery Operations Criteria	BCD-01.5	Mechanisms exist to define spefic criteria necessary that must be met to execute Disaster Recover / Business Continuity (BC/DR) plans to facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5
RS.AN	N/A	Investigations are conducted to ensure effective response and support forensics and recovery activities.	Functional	intersects with	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and	5
				intersects with	Chain of Custody & Forensics	IRO-08	(6) Recovery. Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-	5
RS.AN-03	N/A	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	recognized secure practices. Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	10
				interests to	Incident Here III	IDO 00	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake;	5
RS.AN-06	N/A	Actions performed during an investigation are recorded, and the records' integrity and provenance are preserved.	Functional	intersects with	Incident Handling	IRO-02	(3) Analysis;(4) Containment;(5) Eradication; and(6) Recovery.	J
		Service and production		intersects with	Chain of Custody & Forensics		Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.	5
				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	N/A	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	N/A	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
				intersects with	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5
				intersects with	Correlation with External Organizations Coordination with		Mechanisms exist to coordinate with approved third-parties to achieve a cross- organization perspective on incident awareness and more effective incident responses. Mechanisms exist to coordinate incident response testing with organizational	5
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	intersects with	Related Plans Situational Awareness For Incidents	IRO-06.1	elements responsible for related plans. 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
		stakeholders as required by laws, regulations, or policies.		intersects with	Incident Stakeholder Reporting	IRO-10	Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders; (2) Affected clients & third-parties; and (3) Regulatory authorities.	5
		_	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5	
				intersects with	Supply Chain Coordination		Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply	5
		1				<u> </u>	chain for systems or system components related to the incident.	<u> </u>



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
							Mechanisms exist to cover: (1) Preparation;	(optional)	
				intersects with	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;(3) Analysis;(4) Containment;	5	
							(5) Eradication; and (6) Recovery. Mechanisms exist to timely-report incidents to applicable:		
RS.CO-02	N/A	Internal and external stakeholders are notified of incidents.	Functional	intersects with	Incident Stakeholder Reporting	IRO-10	(1) Internal stakeholders;(2) Affected clients & third-parties; and	5	
				intersects with	Cyber Incident Reporting	IRO-10.2	(3) Regulatory authorities. Mechanisms exist to report sensitive/regulated data incidents in a timely manner.	5	
				intersects with	for Sensitive Data Supply Chain	IPO 10 4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply	5	
				microcoto with	Coordination	1110-10.4	chain for systems or system components related to the incident. Mechanisms exist to cover:		
				intersects with	Incident Handling	IRO-02	(1) Preparation;(2) Automated event detection or manual incident report intake;(3) Analysis;	5	
							(4) Containment;(5) Eradication; and(6) Recovery.		
RS.CO-03	N/A	Information is shared with designated internal and external stakeholders.	Functional	intersects with	Incident Stakeholder	IRO-10	Mechanisms exist to timely-report incidents to applicable: (1) Internal stakeholders;	5	
					Reporting Cyber Incident Reporting		(2) Affected clients & third-parties; and (3) Regulatory authorities. Mechanisms exist to report sensitive/regulated data incidents in a timely manner.		
				intersects with	for Sensitive Data	IRO-10.2	Mechanisms exist to provide cybersecurity & data privacy incident information to	5	
				intersects with	Supply Chain Coordination	IRO-10.4	the provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident. Mechanisms exist to implement and govern processes and documentation to	5	
				intersects with	Incident Response Operations	IRO-01	facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	5	
RS.MI	N/A	Activities are performed to prevent expansion of an event and mitigate	Functional				Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake;		
NO.PH	IVA	its effects.	Tunctionat	intersects with	Incident Handling	IRO-02	(3) Analysis;(4) Containment;(5) Eradication; and	5	
				intersects with	Incident Response Plan	IRO-04	(6) Recovery. Mechanisms exist to maintain and make available a current and viable Incident	5	
					(IRP)		Response Plan (IRP) to all stakeholders. Mechanisms exist to cover: (1) Preparation;		
RS.MI-01	N/A	Incidents are contained.	Functional	subset of	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;(3) Analysis;(4) Containment;	10	
							(5) Eradication; and (6) Recovery. Mechanisms exist to cover:		
PO MI 00	N/A		5			IDO 00	(1) Preparation;(2) Automated event detection or manual incident report intake;		
RS.MI-02	N/A	Incidents are eradicated.	Functional	subset of	Incident Handling	IRO-02	(3) Analysis;(4) Containment;(5) Eradication; and	10	
					Business Continuity		(6) Recovery. Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations		
RC	N/A	Assets and operations affected by a cybersecurity incident are restored.	Functional	subset of	Management System (BCMS) Information System	BCD-01	Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
				intersects with	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	
				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	
		Destavation estivities are performed to anours approximately citability of		intersects with	Recovery Time / Point	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
RC.RP	N/A	Restoration activities are performed to ensure operational availability of systems and services affected by cybersecurity incidents.	Functional	intersects with	Objectives (RTO / RPO) 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	
					Resume All Missions &		Mechanisms exist to resume all missions and business functions within Recovery	E	
				intersects with	Business Functions	BCD-02.1	Time Objectives (RTOs) of the contingency plan's activation. Mechanisms exist to define spefic criteria necessary that must be met to execute	5	
RC.RP-01	N/A	The recovery portion of the incident response plan is executed once initiated from the incident response process.	Functional	intersects with	Recovery Operations Criteria	BCD-01.5	Disaster Recover / Business Continuity (BC/DR) plans to facilitate business continuity operations capable of meeting applicable Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
		initiated from the incident response process.		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	
				subset of	Business Continuity Management System	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Rusiness Continuity & Disaster Recovery (BC/DR) playbooks)	10	
RC.RP-02	N/A	Recovery actions are selected, scoped, prioritized, and performed.	Functional	intersects with	(BCMS) Recovery Time / Point	BCD-01.4	Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks). Mechanisms exist to facilitate recovery operations in accordance with Recovery	5	
		, , , , , , , , , , , , , , , , , , , ,		intersects with	Objectives (RTO / RPO) Identify Critical Assets	BCD-01.4	Time Objectives (RTOs) and Recovery Point Objectives (RPOs). Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
				intersects with	Resume All Missions & 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	
RC.RP-03	N/A	The integrity of backups and other restoration assets is verified before using them for restoration.	Functional	intersects with	Hardware Protection Restoration Integrity	BCD-13 BCD-13.1	Mechanisms exist to verify the integrity of backups and other restoration assets	5	
				subset of	Verification Business Continuity Management System	BCD-01	prior to 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	10	
RC.RP-04	N/A	Critical mission functions and cybersecurity risk management are	Functional	intersects with	(BCMS)	BCD-01.4	Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks). Mechanisms exist to facilitate recovery operations in accordance with Recovery	5	
110.111 -04	IVA	considered to establish post-incident operational norms.	, anotional	intersects with	Objectives (RTO / RPO) Identify Critical Assets	BCD-01.4	Time Objectives (RTOs) and Recovery Point Objectives (RPOs). Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
				intersects with	Resume All Missions & Business Functions Information System	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 ensure the secure recovery and reconstitution of systems to a	5	
RC.RP-05	N/A	The integrity of restored assets is verified, systems and services are restored, and normal operating status is confirmed.	Functional	subset of	Recovery & Reconstitution	BCD-12	known state after a disruption, compromise or failure.	10	
							Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake;		
RC.RP-06	N/A	The end of incident recovery is declared based on criteria, and incident related documentation is completed.	Functional	intersects with	Incident Handling	IRO-02	(3) Analysis; (4) Containment; (5) Eradication; and	5	
				intercects :: "!!	Situational Awareness	IPO 00	(6) Recovery. Mechanisms exist to document, monitor and report the status of cybersecurity &		
				intersects with	For Incidents Coordinate with Related	IRO-09 BCD-01.1	data privacy incidents to internal stakeholders all the way through the resolution of the incident. Mechanisms exist to coordinate contingency plan development with internal and	5	
RC.CO	N/A	Restoration activities are coordinated with internal and external parties.	Functional	intersects with	Plans Coordinate With External		external elements responsible for related plans. Mechanisms exist to coordinate internal contingency plans with the contingency plans of external service providers to ensure that contingency requirements can be	5	
RC.CO-03	N/A	Recovery activities and progress in restoring operational capabilities	Functional	equal	Recovery Operations		satisfied. Mechanisms exist to communicate the status of recovery activities and progress in restoring operational capabilities to designated internal and external stakeholders.	10	
		are communicated to designated internal and external stakeholders.	. unotional	Squat	Communications		Mechanisms exist to proactively manage public relations associated with incidents		
RC.CO-04	N/A	Public updates on incident recovery are shared using approved methods and messaging.	Functional	subset of	Public Relations & Reputation Repair	IRO-16	and employ appropriate measures to prevent further reputational damage and develop plans to repair any damage to the organization's reputation.	10	
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