

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

Reference Document: Secure Controls Framework (SCF) version 2025.2

STRM Guidance: <https://securecontrolsframework.com/set-theory-relationship-mapping-strm/>

Focal Document:

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**NIST Cybersecurity Framework (CSF) version 2.0**

<https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.29.pdf>

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

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

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)
GV-RM-02	N/A	Risk appetite and risk tolerance statements are established, communicated, and maintained.	Functional	intersects with	Risk Appetite	RSK-01.5	Mechanisms exist to define organizational risk appetite, the degree of uncertainty the organization is willing to accept in anticipation of a reward.	10	
GV-RM-03	N/A	Cybersecurity risk management activities and outcomes are included in enterprise risk management processes.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV-RM-03	N/A	Cybersecurity risk management activities and outcomes are included in enterprise risk management processes.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV-RM-03	N/A	Cybersecurity risk management activities and outcomes are included in enterprise risk management processes.	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
GV-RM-04	N/A	Strategic direction that describes appropriate risk response options is established and communicated.	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
GV-RM-04	N/A	Strategic direction that describes appropriate risk response options is established and communicated.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: (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 (4) Priorities, benefits and trade-offs considered by the organization for managing risk.	5	
GV-RM-04	N/A	Strategic direction that describes appropriate risk response options is established and communicated.	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	5	
GV-RM-04	N/A	Strategic direction that describes appropriate risk response options is established and communicated.	Functional	superset of	Risk Response	RSK-06.1	Mechanisms exist to respond to findings from cybersecurity & data privacy assessments, incidents and audits to ensure proper remediation has been performed.	5	
GV-RM-04	N/A	Strategic direction that describes appropriate risk response options is established and communicated.	Functional	intersects with	Compensating Countermeasures	RSK-06.2	Mechanisms exist to identify and implement compensating countermeasures to reduce risk and exposure to threats.	5	
GV-RM-05	N/A	Lines of communication across the organization are established for cybersecurity risks, including risks from suppliers and other third parties.	Functional	intersects with	Assigned Cybersecurity & Data Protection Responsibilities	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	5	
GV-RM-05	N/A	Lines of communication across the organization are established for cybersecurity risks, including risks from suppliers and other third parties.	Functional	intersects with	Stakeholder Accountability Structure	GOV-04.1	Mechanisms exist to enforce an accountability structure so that appropriate teams and individuals are empowered, responsible and trained for mapping, measuring and managing data and technology-related risks.	5	
GV-RM-05	N/A	Lines of communication across the organization are established for cybersecurity risks, including risks from suppliers and other third parties.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
GV-RM-05	N/A	Lines of communication across the organization are established for cybersecurity risks, including risks from suppliers and other third parties.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
GV-RM-06	N/A	A standardized method for calculating, documenting, categorizing, and prioritizing cybersecurity risks is established and communicated.	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
GV-RM-06	N/A	A standardized method for calculating, documenting, categorizing, and prioritizing cybersecurity risks is established and communicated.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: (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 (4) Priorities, benefits and trade-offs considered by the organization for managing risk.	5	
GV-RM-06	N/A	A standardized method for calculating, documenting, categorizing, and prioritizing cybersecurity risks is established and communicated.	Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
GV-RM-06	N/A	A standardized method for calculating, documenting, categorizing, and prioritizing cybersecurity risks is established and communicated.	Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	5	
GV-RM-07	N/A	Strategic opportunities (i.e., positive risks) are characterized and are included in organizational cybersecurity risk discussions.	Functional	subset of	Risk Framing	RSK-01.1	Mechanisms exist to identify: (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 (4) Priorities, benefits and trade-offs considered by the organization for managing risk.	10	
GV-RR	N/A	Cybersecurity roles, responsibilities, and authorities to foster accountability, performance assessment, and continuous improvement are established and communicated.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
GV-RR	N/A	Cybersecurity roles, responsibilities, and authorities to foster accountability, performance assessment, and continuous improvement are established and communicated.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	8	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Assigned Cybersecurity & Data Protection Responsibilities	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Stakeholder Accountability Structure	GOV-04.1	Mechanisms exist to enforce an accountability structure so that appropriate teams and individuals are empowered, responsible and trained for mapping, measuring and managing data and technology-related risks.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Risk Tolerance	RSK-01.3	Mechanisms exist to define organizational risk tolerance, the specified range of acceptable results.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Risk Threshold	RSK-01.4	Mechanisms exist to define organizational risk threshold, the level of risk exposure above which risks are addressed and below which risks may be accepted.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Risk Appetite	RSK-01.5	Mechanisms exist to define organizational risk appetite, the degree of uncertainty the organization is willing to accept in anticipation of a reward.	5	
GV-RR-01	N/A	Organizational leadership is responsible and accountable for cybersecurity risk and fosters a culture that is risk-aware, ethical, and continually improving.	Functional	intersects with	Risk Culture	RSK-12	Mechanisms exist to ensure teams are committed to a culture that considers and communicates technology-related risk.	5	
GV-RR-02	N/A	Roles, responsibilities, and authorities related to cybersecurity risk management are established, communicated, understood, and enforced.	Functional	intersects with	Assigned Cybersecurity & Data Protection Responsibilities	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	5	
GV-RR-02	N/A	Roles, responsibilities, and authorities related to cybersecurity risk management are established, communicated, understood, and enforced.	Functional	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 positions.	5	
GV-RR-02	N/A	Roles, responsibilities, and authorities related to cybersecurity risk management are established, communicated, understood, and enforced.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
GV-RR-02	N/A	Roles, responsibilities, and authorities related to cybersecurity risk management are established, communicated, understood, and enforced.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCI) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
GV-RR-03	N/A	Adequate resources are allocated commensurate with the cybersecurity risk strategy, roles, responsibilities, and policies.	Functional	intersects with	Cybersecurity & Data Privacy Portfolio Management	PRM-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy-related resource planning controls that define a viable plan for achieving cybersecurity & data privacy objectives.	5	
GV-RR-03	N/A	Adequate resources are allocated commensurate with the cybersecurity risk strategy, roles, responsibilities, and policies.	Functional	intersects with	Cybersecurity & Data Privacy Resource Management	PRM-02	Mechanisms exist to address all capital planning and investment requests, including the resources needed to implement the cybersecurity & data privacy programs and document all exceptions to this requirement.	5	
GV-RR-03	N/A	Adequate resources are allocated commensurate with the cybersecurity risk strategy, roles, responsibilities, and policies.	Functional	equal	Allocation of Resources	PRM-03	Mechanisms exist to identify and allocate resources for management, operational, technical and data privacy requirements within business process planning for projects / initiatives.	10	
GV-RR-04	N/A	Cybersecurity is included in human resources practices.	Functional	equal	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
GV-RR-04	N/A	Cybersecurity is included in human resources practices.	Functional	intersects with	User Awareness	HRS-03.1	Mechanisms exist to communicate with users about their roles and responsibilities to maintain a safe and secure working environment.	5	
GV-PO	N/A	Organizational cybersecurity policy is established, communicated, and enforced.	Functional	subset of	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	10	
GV-PO	N/A	Organizational cybersecurity policy is established, communicated, and enforced.	Functional	intersects with	Policy Familiarization & Acknowledgement	HRS-05.7	Mechanisms exist to ensure personnel receive recurring familiarization with the organization's cybersecurity & data privacy policies and provide acknowledgement.	5	
GV-PO	N/A	Organizational cybersecurity policy is established, communicated, and enforced.	Functional	intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
GV_PO-01	N/A	Policy for managing cybersecurity risks is established based on organizational context, cybersecurity strategy, and priorities and is communicated and enforced.	Functional	subset of	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	10	
GV_PO-01	N/A	Policy for managing cybersecurity risks is established based on organizational context, cybersecurity strategy, and priorities and is communicated and enforced.	Functional	intersects with	Policy Familiarization & Acknowledgement	HRS-05.7	Mechanisms exist to ensure personnel receive recurring familiarization with the organization's cybersecurity & data privacy policies and provide acknowledgement.	5	
GV_PO-01	N/A	Policy for managing cybersecurity risks is established based on organizational context, cybersecurity strategy, and priorities and is communicated and enforced.	Functional	intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
GV_PO-02	N/A	Policy for managing cybersecurity risks is reviewed, updated, communicated, and enforced to reflect changes in requirements, threats, technology, and organizational mission.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection 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, threats, technology, and organizational mission.	Functional	intersects with	Policy Familiarization & Acknowledgement	HRS-05.7	Mechanisms exist to ensure personnel receive recurring familiarization with the organization's cybersecurity & data privacy policies and provide acknowledgement.	8	
GV_PO-02	N/A	Policy for managing cybersecurity risks is reviewed, updated, communicated, and enforced to reflect changes in requirements, threats, technology, and organizational mission.	Functional	intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	8	
GV_OV	N/A	Results of organization-wide cybersecurity risk management activities and performance are used to inform, improve, and adjust the risk management strategy.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV_OV	N/A	Results of organization-wide cybersecurity risk management activities and performance are used to inform, improve, and adjust the risk management strategy.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV_OV	N/A	Results of organization-wide cybersecurity risk management activities and performance are used to inform, improve, and adjust the risk management strategy.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
GV_OV	N/A	Results of organization-wide cybersecurity risk management activities and performance are used to inform, improve, and adjust the risk management strategy.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
GV_OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV_OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV_OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
GV_OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Periodic Review & Update of Cybersecurity & Data Protection Program	GOV-03	Mechanisms exist to review the cybersecurity & data protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	5	
GV_OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	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.	5	
GV_OV-01	N/A	Cybersecurity risk management strategy outcomes are reviewed to inform and adjust strategy and direction.	Functional	intersects with	Strategic Plan & Objectives	PRM-01.1	Mechanisms exist to establish a strategic cybersecurity & data privacy-specific business plan and set of objectives to achieve that plan.	5	
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	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	10	
GV_OV-02	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	Mechanisms exist to review the cybersecurity & data protection program, including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	10	
GV_OV-02	N/A	The cybersecurity risk management strategy is reviewed and adjusted to ensure coverage of organizational requirements and risks.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV_OV-03	N/A	Organizational cybersecurity risk management performance is evaluated and reviewed for adjustments needed.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV_OV-03	N/A	Organizational cybersecurity risk management performance is evaluated and reviewed for adjustments needed.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV_OV-03	N/A	Organizational cybersecurity risk management performance is evaluated and reviewed for adjustments needed.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
GV_OV-03	N/A	Organizational cybersecurity risk management performance is evaluated and reviewed for adjustments needed.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	equal	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	10	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Supply Chain Risk Assessment	RSK-09.1	Mechanisms exist to periodically assess supply chain risks associated with systems, system components and services.	5	
GV_SC	N/A	Cyber supply chain risk management processes are identified, established, managed, monitored, and improved by organizational stakeholders.	Functional	intersects with	Supply Chain Risk Management (SCRM)	TPM-03	Mechanisms exist to: (1) Evaluate security risks and threats associated with the services and product supply chains; and (2) Take appropriate remediation actions to minimize the organization's exposure to those risks and threats, as necessary.	8	
GV_SC-01	N/A	A cybersecurity supply chain risk management program, strategy, objectives, policies, and processes are established and agreed to by organizational stakeholders.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV_SC-01	N/A	A cybersecurity supply chain risk management program, strategy, objectives, policies, and processes are established and agreed to by organizational stakeholders.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV_SC-01	N/A	A cybersecurity supply chain risk management program, strategy, objectives, policies, and processes are established and agreed to by organizational stakeholders.	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
GV_SC-01	N/A	A cybersecurity supply chain risk management program, strategy, objectives, policies, and processes are established and agreed to by organizational stakeholders.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV_SC-01	N/A	A cybersecurity supply chain risk management program, strategy, objectives, policies, and processes are established and agreed to by organizational stakeholders.	Functional	equal	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	10	
GV_SC-02	N/A	Cybersecurity roles and responsibilities for suppliers, customers, and partners are established, communicated, and coordinated internally and externally.	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	8	
GV_SC-02	N/A	Cybersecurity roles and responsibilities for suppliers, customers, and partners are established, communicated, and coordinated internally and externally.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	8	
GV_SC-02	N/A	Cybersecurity roles and responsibilities for suppliers, customers, and partners are established, communicated, and coordinated internally and externally.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASC) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASC) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	8	

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)
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Defining Business Context & Mission	GOV-08	Mechanisms exist to define the context of its business model and document the organization's mission.	5	
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Define Control Objectives	GOV-09	Mechanisms exist to establish control objectives as the basis for the selection, implementation and management of the organization's internal control system.	5	
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV-SC-03	N/A	Cybersecurity supply chain risk management is integrated into cybersecurity and enterprise risk management, risk assessment, and improvement processes.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
GV-SC-04	N/A	Suppliers are known and prioritized by criticality.	Functional	intersects with	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	5	
GV-SC-04	N/A	Suppliers are known and prioritized by criticality.	Functional	intersects with	Asset-Service Dependencies	AST-01.1	Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function.	5	
GV-SC-04	N/A	Suppliers are known and prioritized by criticality.	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
GV-SC-04	N/A	Suppliers are known and prioritized by criticality.	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	8	
GV-SC-04	N/A	Suppliers are known and prioritized by criticality.	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	8	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	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	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Adequate Security for Sensitive / Regulated Data In Support of Contracts	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	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Data Privacy Requirements for Contractors & Service Providers	PRI-07.1	Mechanisms exist to include data privacy requirements in contracts and other acquisition-related documents that establish data privacy roles and responsibilities for contractors and service providers.	5	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are 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	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
GV-SC-05	N/A	Requirements to address cybersecurity risks in supply chains are established, prioritized, and integrated into contracts and other types of agreements with suppliers and other relevant third parties.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5	
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	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	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	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	
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	Supply Chain Risk Management (SCRM)	TPM-03	Mechanisms exist to: (1) Evaluate security risks and threats associated with the services and product supply chains; and (2) Take appropriate remediation actions to minimize the organization's exposure to those risks and threats, as necessary.	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	Limit Potential Harm	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain.	5	
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	Processes To Address Weaknesses or Deficiencies	TPM-03.3	Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
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	Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the organization's systems and 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	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	
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	Conflict of Interests	TPM-04.3	Mechanisms exist to ensure that the interests of external service providers are consistent with and reflect organizational interests.	5	
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	Third-Party Processing, Storage and Service Locations	TPM-04.4	Mechanisms exist to restrict the location of information processing/storage based on business requirements.	5	
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	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
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	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5	
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	Third-Party Authentication Practices	TPM-05.3	Mechanisms exist to ensure External Service Providers (ESPs) use unique authentication factors for each of its customers.	5	
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	Responsible, Accountable, Supportive, Consulted & Informed (RASCII) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCII) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	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	Third-Party Scope Review	TPM-05.5	Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCII) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments accurately reflect current business practices, compliance obligations, technologies and stakeholders.	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	First-Party Declaration (1PD)	TPM-05.6	Mechanisms exist to obtain a First-Party Declaration (1PD) from applicable External Service Providers (ESPs) that provides assurance of compliance with specified statutory, regulatory and contractual obligations for cybersecurity & data privacy controls, including any flow-down requirements to subcontractors.	5	
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	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	
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	Third-Party Personnel Security	TPM-06	Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.	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	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
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	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	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	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
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	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	

FDE #	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)
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	Supply Chain Risk Management (SCRM)	TPM-03	Mechanisms exist to: (1) Evaluate security risks and threats associated with the services and product supply chains; and (2) Take appropriate remediation actions to minimize the organization's exposure to those risks and threats, as necessary.	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	TPM-03.2	Mechanisms exist to utilize security safeguards to limit harm from potential adversaries who identify and target the organization's supply chain.	5	
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	Processes To Address Weaknesses or Deficiencies	TPM-03.3	Mechanisms exist to address identified weaknesses or deficiencies in the security of the supply chain	5	
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	Third-Party Services	TPM-04	Mechanisms exist to mitigate the risks associated with third-party access to the organization's systems and data.	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	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	
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	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	
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	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	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	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Coordinate With External Service Providers	BCD-01.2	Mechanisms exist to coordinate internal contingency plans with the contingency plans of external service providers to ensure that contingency requirements can be satisfied.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, 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 (6) Recovery.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	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	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Third-Party Deficiency Remediation	TPM-09	Mechanisms exist to address weaknesses or deficiencies in supply chain elements identified during independent or organizational assessments of such elements.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Managing Changes To Third-Party Services	TPM-10	Mechanisms exist to control changes to services by suppliers, taking into account the criticality of business information, systems and processes that are in scope by the third-party.	5	
GV-SC-08	N/A	Relevant suppliers and other third parties are included in incident planning, response, and recovery activities.	Functional	intersects with	Third-Party Incident Response & Recovery Capabilities	TPM-11	Mechanisms exist to ensure response/recovery planning and testing are conducted with critical suppliers/providers.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Supply Chain Risk Assessment	RSK-09.1	Mechanisms exist to periodically assess supply chain risks associated with systems, system components and services.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
GV-SC-09	N/A	Supply chain security practices are integrated into cybersecurity and enterprise risk management programs, and their performance is monitored throughout the technology product and service life cycle.	Functional	intersects with	Product Management	TDA-01.1	Mechanisms exist to design and implement product management processes to proactively govern the design, development and production of products and/or services across the System Development Life Cycle (SDLC) to: (1) Improve functionality; (2) Enhance security and resiliency capabilities; (3) Correct security deficiencies; and (4) Conform with applicable statutory, regulatory and/or contractual obligations.	5	
GV-SC-10	N/A	Cybersecurity supply chain risk management plans include provisions for activities that occur after the conclusion of a partnership or service agreement.	Functional	subset of	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	10	
GV-SC-10	N/A	Cybersecurity supply chain risk management plans include provisions for activities that occur after the conclusion of a partnership or service agreement.	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
GV-SC-10	N/A	Cybersecurity supply chain risk management plans include provisions for activities that occur after the conclusion of a partnership or service agreement.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5	
GV-SC-10	N/A	Cybersecurity supply chain risk management plans include provisions for activities that occur after the conclusion of a partnership or service agreement.	Functional	intersects with	Third-Party Authentication Practices	TPM-05.3	Mechanisms exist to ensure External Service Providers (ESPs) use unique authentication factors for each of its customers.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	subset of	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	10	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Status Reporting To Governing Body	GOV-01.2	Mechanisms exist to provide governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management 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 (optional)	Notes (optional)
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: (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 (4) Priorities, benefits and trade-offs considered by the organization for managing risk.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Identification	RSK-03	Mechanisms exist to identify and document risks, both internal and external.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Catalog	RSK-03.1	Mechanisms exist to develop and keep current a catalog of applicable risks associated with the organization's business operations and technologies in use.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Risk Ranking	RSK-05	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities that is based on industry-recognized practices.	5	
ID	N/A	The organization's current cybersecurity risks are understood.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	subset of	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	10	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Asset-Service Dependencies	AST-01.1	Mechanisms exist to identify and assess the security of technology assets that support more than one critical business function.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Asset Inventories	AST-02	Mechanisms exist to perform inventories of technology assets that: (1) Accurately reflects the current systems, applications and services in use; (2) Identifies authorized software products, including business justification details; (3) Is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational personnel.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Asset Ownership Assignment	AST-03	Mechanisms exist to ensure asset ownership responsibilities are assigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Accountability Information	AST-03.1	Mechanisms exist to include capturing the name, position and/or role of individuals responsible/accountable for administering assets as part of the technology asset inventory process.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Terms of Employment	HRS-05	Mechanisms exist to require all employees and contractors to apply cybersecurity & data privacy principles in their daily work.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Rules of Behavior	HRS-05.1	Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Risk-Based Security Categorization	RSK-02	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 the security plan for systems; and (2) Ensure the security categorization decision is reviewed and approved by the asset owner.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Responsible, Accountable, Supportive, Consulted & Informed (RASCIC) Matrix	TPM-05.4	Mechanisms exist to document and maintain a Responsible, Accountable, Supportive, Consulted & Informed (RASCIC) matrix, or similar documentation, to delineate assignment for cybersecurity & data privacy controls between internal stakeholders and External Service Providers (ESPs).	5	
ID.AM	N/A	Assets (e.g., data, hardware, software, systems, facilities, services, people) that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Functional	intersects with	Third-Party Personnel Security	TPM-06	Mechanisms exist to control personnel security requirements including security roles and responsibilities for third-party providers.	5	
ID.AM-01	N/A	Inventories of hardware managed by the organization are maintained.	Functional	subset of	Asset Inventories	AST-02	Mechanisms exist to perform inventories of technology assets that: (1) Accurately reflects the current systems, applications and services in use; (2) Identifies authorized software products, including business justification details; (3) Is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational personnel.	10	
ID.AM-01	N/A	Inventories of hardware managed by the organization are maintained.	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
ID.AM-02	N/A	Inventories of software, services, and systems managed by the organization are maintained.	Functional	subset of	Asset Inventories	AST-02	Mechanisms exist to perform inventories of technology assets that: (1) Accurately reflects the current systems, applications and services in use; (2) Identifies authorized software products, including business justification details; (3) Is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational personnel.	10	
ID.AM-02	N/A	Inventories of software, services, and systems managed by the organization are maintained.	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	

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)
ID-AM-03	N/A	Representations of the organization's authorized network communication and internal and external network data flows are maintained.	Functional	intersects with	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	Mechanisms exist to maintain network architecture diagrams that: (1) Contain sufficient detail to assess the security of the network's architecture; (2) Reflect the current architecture of the network environment; and (3) Document all sensitive/regulated data flows.	5	
ID-AM-03	N/A	Representations of the organization's authorized network communication and internal and external network data flows are maintained.	Functional	intersects with	Control Applicability Boundary Graphical Representation	AST-04.2	Mechanisms exist to ensure control applicability is appropriately-determined for systems, applications, services and third parties by graphically representing applicable boundaries.	5	
ID-AM-03	N/A	Representations of the organization's authorized network communication and internal and external network data flows are maintained.	Functional	intersects with	Geographic Location of Data	DCH-19	Mechanisms exist to inventory, document and maintain data flows for data that is resident (permanently or temporarily) within a service's geographically distributed 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, services and data.	10	
ID-AM-05	N/A	Assets are prioritized based on classification, criticality, resources, and impact on the mission.	Functional	intersects with	Asset Scope Classification	AST-04.1	Mechanisms exist to determine cybersecurity & data privacy control applicability by identifying, assigning and documenting the appropriate asset scope categorization for all systems, applications, services and personnel (internal and third-parties).	5	
ID-AM-05	N/A	Assets are prioritized based on classification, criticality, resources, and impact on the mission.	Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
ID-AM-05	N/A	Assets are prioritized based on classification, criticality, resources, and impact on the mission.	Functional	intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	5	
ID-AM-05	N/A	Assets are prioritized based on classification, criticality, resources, and impact on the mission.	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
ID-AM-07	N/A	Inventories of data and corresponding metadata for designated data types are maintained.	Functional	intersects with	Media Storage	DCH-06	Mechanisms exist to: (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 equipment, techniques and procedures.	5	
ID-AM-07	N/A	Inventories of data and corresponding metadata for designated data types are maintained.	Functional	intersects with	Sensitive Data Inventories	DCH-06.2	Mechanisms exist to maintain inventory logs of all sensitive media and conduct sensitive media inventories at least annually.	5	
ID-AM-07	N/A	Inventories of data and corresponding metadata for designated data types are maintained.	Functional	intersects with	Periodic Scans for Sensitive / Regulated Data	DCH-06.3	Mechanisms exist to periodically scan unstructured data sources for sensitive/regulated data or data requiring special protection measures by statutory, regulatory or contractual obligations.	5	
ID-AM-07	N/A	Inventories of data and corresponding metadata for designated data types are maintained.	Functional	intersects with	Personal Data (PD) Retention & Disposal	PRI-05	Mechanisms exist to: (1) Retain Personal Data (PD), including metadata, for an organization-defined time period to fulfill the purpose(s) identified in the notice or as required by law; (2) Dispose of, destroys, erases, and/or anonymizes the PD, regardless of the method of storage; and (3) Use organization-defined techniques or methods to ensure secure deletion or destruction of PD (including originals, copies and archived records).	5	
ID-AM-07	N/A	Inventories of data and corresponding metadata for designated data types are maintained.	Functional	intersects with	Inventory of Personal Data (PD)	PRI-05.5	Mechanisms exist to establish and maintain a current inventory of all systems, applications and services that collect, receive, process, store, transmit, update and/or share Personal Data (PD).	5	
ID-AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	subset of	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	10	
ID-AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	intersects with	Stakeholder Identification & Involvement	AST-01.2	Mechanisms exist to identify and involve pertinent stakeholders of critical systems, applications and services to support the ongoing secure management of those assets.	5	
ID-AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	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	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	
ID-AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
ID-AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	intersects with	Predictable Failure Analysis	SEA-07	Mechanisms exist to determine the Mean Time to Failure (MTTF) for system components in specific environments of operation.	5	
ID-AM-08	N/A	Systems, hardware, software, services, and data are managed throughout their life cycles.	Functional	intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
ID-RA	N/A	The cybersecurity risk to the organization, assets, and individuals is understood by the organization.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
ID-RA	N/A	The cybersecurity risk to the organization, assets, and individuals is understood by the organization.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
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 Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
ID-RA	N/A	The cybersecurity risk to the organization, assets, and individuals is understood by the organization.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
ID-RA	N/A	The cybersecurity risk to the organization, assets, and individuals is understood by the organization.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Information Assurance (IA) Operations	IAO-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy assessment and authorization controls.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation processes.	5	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	subset of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
ID-RA-01	N/A	Vulnerabilities in assets are identified, validated, and recorded.	Functional	intersects with	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5	
ID-RA-02	N/A	Cyber threat intelligence is received from information sharing forums and sources.	Functional	intersects with	Contacts With Groups & Associations	GOV-07	Mechanisms exist to establish contact with selected groups and associations within the cybersecurity & data privacy communities to: (1) Facilitate ongoing cybersecurity & data privacy education and training for organizational personnel; (2) Maintain currency with recommended cybersecurity & data privacy practices, techniques and technologies; and (3) Share current cybersecurity and/or data privacy-related information including threats, vulnerabilities and incidents.	5	
ID-RA-02	N/A	Cyber threat intelligence is received from information sharing forums and sources.	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	
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	subset of	Threat Intelligence Feeds Program	THR-01	Mechanisms exist to implement a threat intelligence program that includes a cross organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	10	
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	

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)
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Threat Intelligence 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	
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Insider Threat Program	THR-04	Mechanisms exist to implement an insider threat program that includes a cross-discipline insider threat incident handling team.	5	
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Insider Threat Awareness	THR-05	Mechanisms exist to utilize security awareness training on recognizing and reporting potential indicators of insider threat.	5	
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Threat Hunting	THR-07	Mechanisms exist to perform cyber threat hunting that uses Indicators of Compromise (IoC) to detect, track and disrupt threats that evade existing security controls.	5	
ID-RA-03	N/A	Internal and external threats to the organization are identified and recorded.	Functional	intersects with	Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
ID-RA-04	N/A	Potential impacts and likelihoods of threats exploiting vulnerabilities are identified and recorded.	Functional	intersects with	Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
ID-RA-04	N/A	Potential impacts and likelihoods of threats exploiting vulnerabilities are identified and recorded.	Functional	intersects with	Threat Analysis	THR-10	Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: (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 (4) Priorities, benefits and trade-offs considered by the organization for managing risk.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	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	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Risk Ranking	RSK-05	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities that is based on industry-recognized practices.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Risk Response	RSK-06.1	Mechanisms exist to respond to findings from cybersecurity & data privacy assessments, incidents and audits to ensure proper remediation has been performed.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
ID-RA-05	N/A	Threats, vulnerabilities, likelihoods, and impacts are used to understand inherent risk and inform risk response prioritization.	Functional	intersects with	Threat Analysis	THR-10	Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.	5	
ID-RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and communicated.	Functional	intersects with	Risk Framing	RSK-01.1	Mechanisms exist to identify: (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 (4) Priorities, benefits and trade-offs considered by the organization for managing risk.	5	
ID-RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and communicated.	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	
ID-RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and communicated.	Functional	intersects with	Risk Ranking	RSK-05	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities that is based on industry-recognized practices.	5	
ID-RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and communicated.	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	5	
ID-RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and communicated.	Functional	intersects with	Risk Response	RSK-06.1	Mechanisms exist to respond to findings from cybersecurity & data privacy assessments, incidents and audits to ensure proper remediation has been performed.	5	
ID-RA-06	N/A	Risk responses are chosen, prioritized, planned, tracked, and communicated.	Functional	intersects with	Compensating Countermeasures	RSK-06.2	Mechanisms exist to identify and implement compensating countermeasures to reduce risk and exposure to threats.	5	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	subset of	Change Management Program	CHG-01	Mechanisms exist to facilitate the implementation of a change management program.	10	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Prohibition Of Changes	CHG-02.1	Mechanisms exist to prohibit unauthorized changes, unless organization-approved change requests are received.	5	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Test, Validate & Document Changes	CHG-02.2	Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented in a production environment.	5	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Security Impact Analysis for Changes	CHG-03	Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.	5	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Access Restriction For Change	CHG-04	Mechanisms exist to enforce configuration restrictions in an effort to restrict the ability of users to conduct unauthorized changes.	5	
ID-RA-07	N/A	Changes and exceptions are managed, assessed for risk impact, recorded, and tracked.	Functional	intersects with	Exception Management	GOV-02.1	Mechanisms exist to prohibit exceptions to standards, except when the exception has been formally assessed for risk impact, approved and recorded.	5	
ID-RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Threat Intelligence Feeds	THR-01	Mechanisms exist to implement a threat intelligence program that includes a cross organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	5	
ID-RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
ID-RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Threat Intelligence 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	
ID-RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	5	
ID-RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
ID-RA-08	N/A	Processes for receiving, analyzing, and responding to vulnerability disclosures are established.	Functional	intersects with	Vulnerability Ranking	VPM-03	Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities using reputable outside sources for security vulnerability information.	5	
ID-RA-09	N/A	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	intersects with	Logical Tampering Protection	AST-15	Mechanisms exist to verify logical configuration settings and the physical integrity of critical technology assets throughout their lifecycle.	5	
ID-RA-09	N/A	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	intersects with	Roots of Trust Protection	AST-18	Mechanisms exist to provision and protect the confidentiality, integrity and authenticity of product supplier keys and data that can be used as a "roots of trust" basis for integrity verification.	5	
ID-RA-09	N/A	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	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 Updates	TDA-01.2	Mechanisms exist to utilize integrity validation mechanisms for security updates.	5	
ID-RA-09	N/A	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	intersects with	Developer Configuration Management	TDA-14	Mechanisms exist to require system developers and integrators to perform configuration management during system design, development, implementation and operation.	5	
ID-RA-09	N/A	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	intersects with	Software / Firmware Integrity Verification	TDA-14.1	Mechanisms exist to require developer of systems, system components or services to enable integrity verification of software and firmware components.	5	
ID-RA-09	N/A	The authenticity and integrity of hardware and software are assessed prior to acquisition and use.	Functional	intersects with	Hardware Integrity Verification	TDA-14.2	Mechanisms exist to require developer of systems, system components or services to enable integrity verification of hardware components.	5	
ID-RA-10	N/A	Critical suppliers are assessed prior to acquisition.	Functional	intersects with	Third-Party Inventories	TPM-01.1	Mechanisms exist to maintain a current, accurate and complete list of External Service Providers (ESPs) that can potentially impact the Confidentiality, Integrity, Availability and/or Safety (CIAS) of the organization's systems, applications, services and data.	5	
ID-RA-10	N/A	Critical suppliers are assessed prior to acquisition.	Functional	intersects with	Third-Party Criticality Assessments	TPM-02	Mechanisms exist to identify, prioritize and assess suppliers and partners of critical systems, components and services using a supply chain risk assessment process relative to their importance in supporting the delivery of high-value services.	5	
ID-RA-10	N/A	Critical suppliers are assessed prior to acquisition.	Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
ID-IM	N/A	Improvements to organizational cybersecurity risk management processes, procedures and activities are identified across all CSF Functions.	Functional	intersects with	Operations Security	OPS-01	Mechanisms exist to facilitate the implementation of operational security controls.	5	
ID-IM	N/A	Improvements to organizational cybersecurity risk management processes, procedures and activities are identified across all CSF Functions.	Functional	intersects with	Standardized Operating Procedures (SOP)	OPS-01.1	Mechanisms exist to identify and document Standardized Operating Procedures (SOP), or similar documentation, to enable the proper execution of day-to-day / assigned tasks.	5	
ID-IM	N/A	Improvements to organizational cybersecurity risk management 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	



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ID.IM	N/A	Improvements to organizational cybersecurity risk management processes, procedures and activities are identified across all CSF Functions.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	Mechanisms exist to regularly review processes and documented procedures to ensure conformity with the organization's cybersecurity & data protection policies, standards and other applicable requirements.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Functional Review Of Cybersecurity & Data Protection Controls	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Security Assessment Report (SAR)	IAO-02.4	Mechanisms exist to produce a Security Assessment Report (SAR) at the conclusion of a security assessment to certify the results of the assessment and assist with any remediation actions.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation processes.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Continuous Monitoring Plan	TDA-09.1	Mechanisms exist to require the developers of systems, system components or services to produce a plan for the continuous monitoring of cybersecurity & data privacy control effectiveness.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
ID.IM-01	N/A	Improvements are identified from evaluations.	Functional	intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Contingency Plan Root Cause Analysis (RCA) & Lessons Learned	BCD-05	Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Cybersecurity & Data Protection Assessments	CPL-03	Mechanisms exist to regularly review processes and documented procedures to ensure conformity with the organization's cybersecurity & data protection policies, standards and other applicable requirements.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Functional Review Of Cybersecurity & Data Protection Controls	CPL-03.2	Mechanisms exist to regularly review technology assets for adherence to the organization's cybersecurity & data protection policies and standards.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Assessments	IAO-02	Mechanisms exist to formally assess the cybersecurity & data privacy controls in systems, applications and services through Information Assurance Program (IAP) activities to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting expected requirements.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Security Assessment Report (SAR)	IAO-02.4	Mechanisms exist to produce a Security Assessment Report (SAR) at the conclusion of a security assessment to certify the results of the assessment and assist with any remediation actions.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Plan of Action & Milestones (POA&M)	IAO-05	Mechanisms exist to generate a Plan of Action and Milestones (POA&M), or similar risk register, to document planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation processes.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Continuous Monitoring Plan	TDA-09.1	Mechanisms exist to require the developers of systems, system components or services to produce a plan for the continuous monitoring of cybersecurity & data privacy control effectiveness.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Third-Party Risk Assessments & Approvals	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	5	
ID.IM-02	N/A	Improvements are identified from security tests and exercises, including those done in coordination with suppliers and relevant third parties.	Functional	intersects with	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual requirements for cybersecurity & data privacy controls.	5	
ID.IM-03	N/A	Improvements are identified from execution of operational processes, procedures, and activities.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
ID.IM-03	N/A	Improvements are identified from execution of operational processes, procedures, and activities.	Functional	intersects with	Contingency Plan Root Cause Analysis (RCA) & Lessons Learned	BCD-05	Mechanisms exist to conduct a Root Cause Analysis (RCA) and "lessons learned" activity every time the contingency plan is activated.	5	
ID.IM-03	N/A	Improvements are identified from execution of operational processes, procedures, and activities.	Functional	intersects with	Root Cause Analysis (RCA) & Lessons Learned	IRO-13	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	5	
ID.IM-04	N/A	Incident response plans and other cybersecurity plans that affect operations are established, communicated, maintained, and improved.	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	
ID.IM-04	N/A	Incident response plans and other cybersecurity plans that affect operations are established, communicated, maintained, and improved.	Functional	intersects with	Ongoing Contingency Planning	BCD-06	Mechanisms exist to update contingency plans due to changes affecting: (1) People (e.g., personnel changes); (2) Processes (e.g., new, altered or decommissioned business practices, including third-party services) (3) Technologies (e.g., new, altered or decommissioned technologies); (4) Data (e.g., changes to data flows and/or data repositories); (5) Facilities (e.g., new, altered or decommissioned physical infrastructure); and/or (6) Feedback from contingency plan testing activities.	5	
ID.IM-04	N/A	Incident response plans and other cybersecurity plans that affect operations are established, communicated, maintained, and improved.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
ID.IM-04	N/A	Incident response plans and other cybersecurity plans that affect operations are established, communicated, maintained, and improved.	Functional	intersects with	IRP Update	IRO-04.2	Mechanisms exist to regularly review and modify incident response practices to incorporate lessons learned, business process changes and industry developments, as necessary.	5	
PR	N/A	Safeguards to manage the organization's cybersecurity risks are used.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
PR	N/A	Safeguards to manage the organization's cybersecurity risks are used.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
PR	N/A	Safeguards to manage the organization's cybersecurity risks are used.	Functional	intersects with	Statutory, Regulatory & Contractual Compliance	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	5	
PR	N/A	Safeguards to manage the organization's cybersecurity risks are used.	Functional	intersects with	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	5	
PR	N/A	Safeguards to manage the organization's cybersecurity risks are used.	Functional	intersects with	Supply Chain Risk Management (SCRM) Plan	RSK-09	Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRM) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance against those plans.	5	
PR.LAA	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	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	5	
PR.LAA	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	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	

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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	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	5	
PR-LA	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 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	
PR-LA	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 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	
PR-LA-01	N/A	Identities and credentials for authorized users, services, and hardware are managed by the organization.	Functional	intersects with	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
PR-LA-01	N/A	Identities and credentials for authorized users, services, and hardware are managed by the organization.	Functional	intersects with	Identification & Authentication for Non-Organizational Users	IAC-03	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) third-party users and processes that provide services to the organization.	5	
PR-LA-01	N/A	Identities and credentials for authorized users, services, and hardware are managed by the organization.	Functional	intersects with	Identification & Authentication for Devices	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically-based and replay resistant.	5	
PR-LA-01	N/A	Identities and credentials for authorized users, services, and hardware are managed by the organization.	Functional	intersects with	Identification & Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5	
PR-LA-02	N/A	Identities are proofed and bound to credentials based on the context of interactions.	Functional	equal	Identity Proofing (Identity Verification)	IAC-28	Mechanisms exist to verify the identity of a user before issuing authenticators or modifying access permissions.	10	
PR-LA-03	N/A	Users, services, and hardware are authenticated.	Functional	subset of	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).	10	
PR-LA-03	N/A	Users, services, and hardware are authenticated.	Functional	intersects with	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
PR-LA-03	N/A	Users, services, and hardware are authenticated.	Functional	intersects with	Identification & Authentication for Non-Organizational Users	IAC-03	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) third-party users and processes that provide services to the organization.	5	
PR-LA-03	N/A	Users, services, and hardware are authenticated.	Functional	intersects with	Identification & Authentication for Devices	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically-based and replay resistant.	5	
PR-LA-03	N/A	Users, services, and hardware are authenticated.	Functional	intersects with	Identification & Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5	
PR-LA-04	N/A	Identity assertions are protected, conveyed, and verified.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	5	
PR-LA-04	N/A	Identity assertions are protected, conveyed, and verified.	Functional	intersects with	Replay-Resistant Authentication	IAC-02.2	Automated mechanisms exist to employ replay-resistant authentication.	5	
PR-LA-04	N/A	Identity assertions are protected, conveyed, and verified.	Functional	intersects with	Acceptance of External Authenticators	IAC-03.5	Mechanisms exist to restrict the use of external authenticators to those that are National Institute of Standards and Technology (NIST)-compliant and maintain a list of accepted external authenticators.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	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 positions.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Separation of Duties (SoD)	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	Mechanisms exist to strictly govern the use of Authenticate, Authorize and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Identification & Authentication for Non-Organizational Users	IAC-03	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) third-party users and processes that provide services to the organization.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Identification & Authentication for Devices	IAC-04	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically-based and replay resistant.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Identification & Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Role-Based Access Control (RBAC)	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to-know and fine-grained access control for sensitive/regulated data access.	5	
PR-LA-05	N/A	Access permissions, entitlements, and authorizations are defined in a policy, managed, enforced, and reviewed, and incorporate the principles of least privilege and separation of duties.	Functional	intersects with	Least Privilege	IAC-21	Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
PR-LA-06	N/A	Physical access to assets is managed, monitored, and enforced commensurate with risk.	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
PR-LA-06	N/A	Physical access to assets is managed, monitored, and enforced commensurate with risk.	Functional	intersects with	Physical Access Authorizations	PES-02	Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).	5	
PR-LA-06	N/A	Physical access to assets is managed, monitored, and enforced commensurate with risk.	Functional	intersects with	Role-Based Physical Access	PES-02.1	Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.	5	
PR-LA-06	N/A	Physical access to assets is managed, monitored, and enforced commensurate with risk.	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	
PR-LAT	N/A	The organization's personnel are provided with cybersecurity awareness and training so that they can perform their cybersecurity-related tasks.	Functional	subset of	Cybersecurity & Data Privacy-Minded Workforce	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	10	
PR-LAT	N/A	The organization's personnel are provided with cybersecurity awareness and training so that they can perform their cybersecurity-related tasks.	Functional	intersects with	Cybersecurity & Data Privacy Awareness Training	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	5	
PR-LAT	N/A	The organization's personnel are provided with cybersecurity awareness and training so that they can perform their cybersecurity-related tasks.	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually thereafter.	5	
PR-LAT-01	N/A	Personnel are provided with awareness and training so that they possess the knowledge and skills to perform general tasks with cybersecurity risks in mind.	Functional	intersects with	Cybersecurity & Data Privacy Awareness Training	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	5	
PR-LAT-01	N/A	Personnel are provided with awareness and training so that they possess the knowledge and skills to perform general tasks with cybersecurity risks in mind.	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually thereafter.	5	
PR-LAT-01	N/A	Personnel are provided with awareness and training so that they possess the knowledge and skills to perform general 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 in day-to-day business operations.	5	
PR-LAT-02	N/A	Individuals in specialized roles are provided with awareness and training so that they possess the knowledge and skills to perform relevant tasks with cybersecurity risks in mind.	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	Mechanisms exist to provide role-based cybersecurity & data privacy-related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually thereafter.	5	
PR-LAT-02	N/A	Individuals in specialized roles are provided with awareness and training so that they possess the knowledge and skills to perform relevant tasks with cybersecurity risks in mind.	Functional	intersects with	Privileged Users	SAT-03.5	Mechanisms exist to provide specific training for privileged users to ensure privileged users understand their unique roles and responsibilities.	5	
PR-LAT-02	N/A	Individuals in specialized roles are provided with awareness and 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 in day-to-day business operations.	5	
PR-LAT-02	N/A	Individuals in specialized roles are provided with awareness and training so that they possess the knowledge and skills to perform relevant tasks with cybersecurity risks in mind.	Functional	intersects with	Continuing Professional Education (CPE) - Cybersecurity & Data Privacy Personnel	SAT-03.7	Mechanisms exist to ensure cybersecurity & data privacy personnel receive Continuing Professional Education (CPE) training to maintain currency and proficiency with industry-recognized secure practices that are pertinent to their assigned roles and responsibilities.	5	
PR-DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
PR-DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
PR.DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
PR.DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	intersects with	Sensitive / Regulated Media Records	DCH-01.3	Mechanisms exist to ensure media records for sensitive/regulated data contain sufficient information to determine the potential impact in the event of a data loss incident.	5	
PR.DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	intersects with	Defining Access Authorizations for Sensitive/Regulated Data	DCH-01.4	Mechanisms exist to explicitly define authorizations for specific individuals and/or roles for logical and /or physical access to sensitive/regulated data.	5	
PR.DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	intersects with	Data & Asset Classification	DCH-02	Mechanisms exist to ensure data and assets are categorized in accordance with applicable statutory, regulatory and contractual requirements.	5	
PR.DS	N/A	Data are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	Functional	intersects with	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	5	
PR.DS-01	N/A	The confidentiality, integrity, and availability of data-at-rest are protected.	Functional	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 protected.	Functional	intersects with	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
PR.DS-01	N/A	The confidentiality, integrity, and availability of data-at-rest are protected.	Functional	intersects with	Alternate Physical Protection	CRY-01.1	Cryptographic mechanisms exist to prevent unauthorized disclosure of information as an alternative to physical safeguards.	5	
PR.DS-01	N/A	The confidentiality, integrity, and availability of data-at-rest are protected.	Functional	intersects with	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
PR.DS-02	N/A	The confidentiality, integrity, and availability of data-in-transit are protected.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
PR.DS-02	N/A	The confidentiality, integrity, and availability of data-in-transit are protected.	Functional	intersects with	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
PR.DS-02	N/A	The confidentiality, integrity, and availability of data-in-transit are protected.	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
PR.DS-02	N/A	The confidentiality, integrity, and availability of data-in-transit are protected.	Functional	intersects with	Transmission Integrity	CRY-04	Cryptographic mechanisms exist to protect the integrity of data being transmitted.	5	
PR.DS-10	N/A	The confidentiality, integrity, and availability of data-in-use are protected.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
PR.DS-10	N/A	The confidentiality, integrity, and availability of data-in-use are protected.	Functional	intersects with	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	5	
PR.DS-10	N/A	The confidentiality, integrity, and availability of data-in-use are protected.	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
PR.DS-10	N/A	The confidentiality, integrity, and availability of data-in-use are protected.	Functional	intersects with	Least Privilege	IAC-21	Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	5	
PR.DS-11	N/A	Backups of data are created, protected, maintained, and tested.	Functional	intersects with	Data Backups	BCD-11	Mechanisms exist to create recurring backups of data, software and/or system images, as well as verify the integrity of these backups, to ensure the availability of the data to satisfying Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
PR.DS-11	N/A	Backups of data are created, protected, maintained, and tested.	Functional	intersects with	Testing for Reliability & Integrity	BCD-11.1	Mechanisms exist to routinely test backups that verify the reliability of the backup process, as well as the integrity and availability of the data.	5	
PR.DS-11	N/A	Backups of data are created, protected, maintained, and tested.	Functional	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.	5	
PR.DS-11	N/A	Backups of data are created, protected, maintained, and tested.	Functional	intersects with	Transfer to Alternate Storage Site	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 Objectives (RPOs).	5	
PR.LS	N/A	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls.	5	
PR.LS	N/A	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
PR.LS	N/A	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	Reviews & Updates	CFG-02.1	Mechanisms exist to review and update baseline configurations: (1) At least annually; (2) When required due to so; or (3) As part of system component installations and upgrades.	5	
PR.LS	N/A	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	Configure Systems, Components or Services for High-Risk Areas	CFG-02.5	Mechanisms exist to configure systems utilized in high-risk areas with more restrictive baseline configurations.	5	
PR.LS	N/A	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	5	
PR.LS	N/A	The hardware, software (e.g., firmware, operating systems, applications), and services of physical and virtual platforms are managed consistent with the organization's risk strategy to protect their confidentiality, integrity, and availability.	Functional	intersects with	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
PR.LS-01	N/A	Configuration management practices are established and applied.	Functional	equal	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls.	10	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Timely Maintenance	MNT-03	Mechanisms exist to obtain maintenance support and/or spare parts for systems within a defined Recovery Time Objective (RTO).	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Preventative Maintenance	MNT-03.1	Mechanisms exist to perform preventive maintenance on critical systems, applications and services.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Unsupported Systems	TDA-17	Mechanisms exist to prevent unsupported systems by: (1) Replacing systems when support for the components is no longer available from the developer, vendor or manufacturer; and (2) Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Vulnerability & Patch Management Program (VPM)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface management activities.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
PR.LS-02	N/A	Software is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Timely Maintenance	MNT-03	Mechanisms exist to obtain maintenance support and/or spare parts for systems within a defined Recovery Time Objective (RTO).	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Preventative Maintenance	MNT-03.1	Mechanisms exist to perform preventive maintenance on critical systems, applications and services.	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Secure Development Life Cycle (SDLC) Management	PRM-07	Mechanisms exist to ensure changes to systems within the Secure Development Life Cycle (SDLC) are controlled through formal change control procedures.	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Technology Lifecycle Management	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	5	
PR.LS-03	N/A	Hardware is maintained, replaced, and removed commensurate with risk.	Functional	intersects with	Unsupported Systems	TDA-17	Mechanisms exist to prevent unsupported systems by: (1) Replacing systems when support for the components is no longer available from the developer, vendor or manufacturer; and (2) Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs.	5	
PR.LS-04	N/A	Log records are generated and made available for continuous monitoring.	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
PR.LS-04	N/A	Log records are generated and made available for continuous monitoring.	Functional	intersects with	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	

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)
PR.PS-04	N/A	Log records are generated and made available for continuous monitoring.	Functional	intersects with	Content of Event Logs	MON-03	Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event.	5	
PR.PS-05	N/A	Installation and execution of unauthorized software are prevented.	Functional	intersects with	Configuration Management Program	CFG-01	Mechanisms exist to facilitate the implementation of configuration management controls.	5	
PR.PS-05	N/A	Installation and execution of unauthorized software are prevented.	Functional	intersects with	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	5	
PR.PS-05	N/A	Installation and execution of unauthorized software are prevented.	Functional	intersects with	Least Functionality	CFG-03	Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
PR.PS-05	N/A	Installation and execution of unauthorized software are prevented.	Functional	intersects with	Prevent Unauthorized Software Execution	CFG-03.2	Mechanisms exist to configure systems to prevent the execution of unauthorized software programs.	5	
PR.PS-05	N/A	Installation and execution of unauthorized software are prevented.	Functional	intersects with	User-Installed Software	CFG-05	Mechanisms exist to restrict the ability of non-privileged users to install unauthorized software.	5	
PR.PS-05	N/A	Installation and execution of unauthorized software are prevented.	Functional	intersects with	Prohibit Installation Without Privileged Status	END-03	Automated mechanisms exist to prohibit software installations without explicitly assigned privileged status.	5	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	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	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	intersects with	Product Management	TDA-01.1	Mechanisms exist to design and implement product management processes to proactively govern the design, development and production of products and/or services across the System Development Life Cycle (SDLC) to: (1) Improve functionality; (2) Enhance security and resiliency capabilities; (3) Correct security deficiencies; and (4) Conform with applicable statutory, regulatory and/or contractual obligations.	5	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	intersects with	Secure Software Development Practices (SSDP)	TDA-06	Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).	5	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	intersects with	Criticality Analysis	TDA-06.1	Mechanisms exist to require the developer of the system, system component or service to perform a criticality analysis at organization-defined decision points in the Secure Development Life Cycle (SDLC).	5	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	intersects with	Threat Modeling	TDA-06.2	Mechanisms exist to perform threat modeling and other secure design techniques, to ensure that threats to software and solutions are identified and accounted for.	5	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	intersects with	Software Assurance Maturity Model (SAMM)	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 services.	5	
PR.PS-06	N/A	Secure software development practices are integrated, and their performance is monitored throughout the software development life cycle.	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	Mechanisms exist to require system developers/integrators consult with cybersecurity & data privacy personnel to: (1) Create and implement a Security Testing and Evaluation (ST&E) plan, or similar capability; (2) Implement a verifiable flaw remediation process to correct weaknesses and deficiencies identified during the security testing and evaluation process; and (3) Document the results of the security testing/evaluation and flaw remediation processes.	5	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	Mechanisms exist to facilitate the implementation of cybersecurity & data protection governance controls.	10	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	intersects with	Steering Committee & Program Oversight	GOV-01.1	Mechanisms exist to coordinate cybersecurity, data protection and business alignment through a steering committee or advisory board, comprised of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.	5	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	intersects with	Risk Management Program	RSK-01	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 organizational resilience.	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	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	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	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
PR.IR	N/A	Security architectures are managed with the organization's risk strategy to protect asset confidentiality, integrity, and availability, and organizational resilience.	Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
PR.IR-01	N/A	Networks and environments are protected from unauthorized logical access and usage.	Functional	subset of	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	10	
PR.IR-01	N/A	Networks and environments are protected from unauthorized logical access and usage.	Functional	intersects with	Layered Network Defenses	NET-02	Mechanisms exist to implement security functions as a layered structure that minimizes interactions between layers of the design and avoids any dependence by lower layers on the functionality or correctness of higher layers.	5	
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	
PR.IR-01	N/A	Networks and environments are protected from unauthorized logical access and usage.	Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	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	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	Functional	intersects with	Supporting Utilities	PES-07	Facility security mechanisms exist to protect power equipment and power cabling for the system from damage and destruction.	5	
PR.IR-02	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	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	Functional	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 energy source.	5	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	Functional	intersects with	Temperature & Humidity Controls	PES-09	Facility security mechanisms exist to maintain and monitor temperature and humidity levels within the facility.	5	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	Functional	intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
PR.IR-02	N/A	The organization's technology assets are protected from environmental threats.	Functional	intersects with	Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
PR.IR-03	N/A	Mechanisms are implemented to achieve resilience requirements in normal and adverse situations.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
PR.IR-03	N/A	Mechanisms are implemented to achieve resilience requirements in normal and adverse situations.	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	
PR.IR-03	N/A	Mechanisms are implemented to achieve resilience requirements in normal and adverse situations.	Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	Mechanisms exist to develop an enterprise architecture, aligned with industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
PR.IR-03	N/A	Mechanisms are implemented to achieve resilience requirements in normal and adverse situations.	Functional	intersects with	Achieving Resilience Requirements	SEA-01.2	Mechanisms exist to achieve resilience requirements in normal and adverse situations.	5	
PR.IR-04	N/A	Adequate resource capacity to ensure availability is maintained.	Functional	subset of	Capacity & Performance Management	CAP-01	Mechanisms exist to facilitate the implementation of capacity management controls to ensure optimal system performance to meet expected and anticipated future capacity requirements.	10	
PR.IR-04	N/A	Adequate resource capacity to ensure availability is maintained.	Functional	intersects with	Resource Priority	CAP-02	Mechanisms exist to control resource utilization of systems that are susceptible to 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	

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)
PR.LR-04	N/A	Adequate resource capacity to ensure availability is maintained.	Functional	intersects with	Performance Monitoring	CAP-04	Automated mechanisms exist to centrally monitor and alert on the operating state and health status of critical systems, applications and services.	5	
PR.LR-04	N/A	Adequate resource capacity to ensure availability is maintained.	Functional	intersects with	Elastic Expansion	CAP-05	Mechanisms exist to dynamically change the resources available for services, as demand conditions change.	5	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	Functional	subset of	Threat Intelligence Feeds Program	THR-01	Mechanisms exist to implement a threat intelligence program that includes a cross organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	10	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	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	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	Functional	intersects with	Threat Hunting	THR-07	Mechanisms exist to perform cyber threat hunting that uses Indicators of Compromise (IoC) to detect, track and disrupt threats that evade existing security controls.	5	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	Functional	intersects with	Threat Catalog	THR-09	Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and manmade.	5	
DE	N/A	Possible cybersecurity attacks and compromises are found and analyzed.	Functional	intersects with	Threat Analysis	THR-10	Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.	5	
DE.CM	N/A	Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events.	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC).	5	
DE.CM	N/A	Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events.	Functional	intersects with	Anomalous Behavior	MON-16	Mechanisms exist to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities.	5	
DE.CM	N/A	Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events.	Functional	intersects with	Indicators of Compromise (IOC)	IRO-03	Mechanisms exist to define specific Indicators of Compromise (IOC) to identify the signs of potential cybersecurity events.	5	
DE.CM	N/A	Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events.	Functional	intersects with	Indicators of Exposure (IOE)	THR-02	Mechanisms exist to develop Indicators of Exposure (IOE) to understand the potential attack vectors that attackers could use to attack the organization.	5	
DE.CM-01	N/A	Networks and network services are monitored to find potentially adverse events.	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
DE.CM-01	N/A	Networks and network services are monitored to find potentially adverse events.	Functional	intersects with	Intrusion Detection & Prevention Systems (IDS / IPS)	MON-01.1	Mechanisms exist to implement Intrusion Detection / Prevention Systems (IDS / IPS) technologies on critical systems, key network segments and network choke points.	5	
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	
DE.CM-01	N/A	Networks and network services are monitored to find potentially adverse events.	Functional	intersects with	System Generated Alerts	MON-01.4	Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	5	
DE.CM-01	N/A	Networks and network services are monitored to find potentially adverse events.	Functional	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	
DE.CM-02	N/A	The physical environment is monitored to find potentially adverse events.	Functional	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	
DE.CM-02	N/A	The physical environment is monitored to find potentially adverse events.	Functional	intersects with	Physical Access Logs	PES-03.3	Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.	5	
DE.CM-02	N/A	The physical environment is monitored to find potentially adverse events.	Functional	intersects with	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	5	
DE.CM-03	N/A	Personnel activity and technology usage are monitored to find potentially adverse events.	Functional	intersects with	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	5	
DE.CM-03	N/A	Personnel activity and technology usage are monitored to find potentially adverse events.	Functional	intersects with	Anomalous Behavior	MON-16	Mechanisms exist to detect and respond to anomalous behavior that could indicate account compromise or other malicious activities.	5	
DE.CM-03	N/A	Personnel activity and technology usage are monitored to find potentially adverse events.	Functional	intersects with	Insider Threats	MON-16.1	Mechanisms exist to monitor internal personnel activity for potential security incidents.	5	
DE.CM-03	N/A	Personnel activity and technology usage are monitored to find potentially adverse events.	Functional	intersects with	Unauthorized Activities	MON-16.3	Mechanisms exist to monitor for unauthorized activities, accounts, connections, devices and software.	5	
DE.CM-03	N/A	Personnel activity and technology usage are monitored to find potentially adverse events.	Functional	intersects with	DNS & Content Filtering	NET-18	Mechanisms exist to force Internet-bound network traffic through a proxy device (e.g., Policy Enforcement Point (PEP)) for URL content filtering and DNS filtering to limit a user's ability to connect to dangerous or prohibited Internet sites.	5	
DE.CM-06	N/A	External service provider activities and services are monitored to find potentially adverse events.	Functional	intersects with	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	5	
DE.CM-06	N/A	External service provider activities and services are monitored to find potentially adverse events.	Functional	intersects with	Third-Party Threats	MON-16.2	Mechanisms exist to monitor third-party personnel activity for potential security incidents.	5	
DE.CM-06	N/A	External service provider activities and services are monitored to find potentially adverse events.	Functional	intersects with	Account Creation and Modification Logging	MON-16.4	Automated mechanisms exist to generate event logs for permissions changes to privileged accounts and/or groups.	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	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	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	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 modifications.	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	Mechanisms exist to facilitate the implementation of endpoint security controls.	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	Malicious Code Protection (Anti-Malware)	END-04	Mechanisms exist to utilize anti-malware technologies to detect and eradicate malicious code.	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 File Integrity Monitoring (FIM)	END-06	Mechanisms exist to utilize File Integrity Monitor (FIM), or similar technologies, to detect and report on unauthorized changes to selected files and configuration settings.	5	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity incidents.	Functional	intersects with	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	5	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity incidents.	Functional	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	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity incidents.	Functional	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 implications.	5	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity incidents.	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	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity incidents.	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 (6) Recovery.	5	
DE.AE	N/A	Anomalies, indicators of compromise, and other potentially adverse events are analyzed to characterize the events and detect cybersecurity incidents.	Functional	intersects with	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
DE.AE-02	N/A	Potentially adverse events are analyzed to better understand associated 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 (6) Recovery.	5	
DE.AE-02	N/A	Potentially adverse events are analyzed to better understand associated activities.	Functional	intersects with	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
DE.AE-03	N/A	Information is correlated from multiple sources.	Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	Mechanisms exist to utilize a Security Incident Event Manager (SIEM) or similar automated tool, to support the centralized collection of security-related event logs.	8	
DE.AE-03	N/A	Information is correlated from multiple sources.	Functional	intersects with	Correlate Monitoring Information	MON-02.1	Automated mechanisms exist to correlate both technical and non-technical information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	10	
DE.AE-03	N/A	Information is correlated from multiple sources.	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 (6) Recovery.	3	
DE.AE-03	N/A	Information is correlated from multiple sources.	Functional	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	



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)
DE-AE-04	N/A	The estimated impact and scope of adverse events are understood.	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 (6) Recovery.	5	
DE-AE-04	N/A	The estimated impact and scope of adverse events are understood.	Functional	intersects with	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
DE-AE-04	N/A	The estimated impact and scope of adverse events are understood.	Functional	intersects with	Materiality Determination	GOV-16	Mechanisms exist to define materiality threshold criteria capable of designating an incident as material.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	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	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	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 implications.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Centralized Collection of Security Event Logs	MON-02	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	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Correlate Monitoring Information	MON-02.1	Automated mechanisms exist to correlate both technical and non-technical information from across the enterprise by a Security Incident Event Manager (SIEM) or similar automated tool, to enhance organization-wide situational awareness.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	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 (6) Recovery.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
DE-AE-06	N/A	Information on adverse events is provided to authorized staff and tools.	Functional	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	
DE-AE-07	N/A	Cyber threat intelligence and other contextual information are integrated into the analysis.	Functional	subset of	Threat Intelligence Feeds Program	THR-01	Mechanisms exist to implement a threat intelligence program that includes a cross-organization information-sharing capability that can influence the development of the system and security architectures, selection of security solutions, monitoring, threat hunting, response and recovery activities.	10	
DE-AE-07	N/A	Cyber threat intelligence and other contextual information are integrated into the analysis.	Functional	intersects with	Threat Intelligence 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	
DE-AE-07	N/A	Cyber threat intelligence and other contextual information are integrated into the analysis.	Functional	intersects with	Threat Analysis	THR-10	Mechanisms exist to identify, assess, prioritize and document the potential impact(s) and likelihood(s) of applicable internal and external threats.	5	
DE-AE-08	N/A	Incidents are declared when adverse events meet the defined incident criteria.	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 (6) Recovery.	5	
DE-AE-08	N/A	Incidents are declared when adverse events meet the defined incident criteria.	Functional	intersects with	Incident Classification & Prioritization	IRO-02.4	Mechanisms exist to identify classes of incidents and actions to take to ensure the continuation of organizational missions and business functions.	5	
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	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	
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	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 (6) Recovery.	5	
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
RS	N/A	Actions regarding a detected cybersecurity incident are taken.	Functional	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	
RS.MA	N/A	Responses to detected cybersecurity incidents are managed.	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 (6) Recovery.	5	
RS.MA	N/A	Responses to detected cybersecurity incidents are managed.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
RS.MA	N/A	Responses to detected cybersecurity incidents are managed.	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
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	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	
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	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	
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	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-01	N/A	The incident response plan is executed in coordination with relevant third parties once an incident is declared.	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
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	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	
RS.MA-02	N/A	Incident reports are triaged and validated.	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 (6) Recovery.	5	
RS.MA-02	N/A	Incident reports are triaged and validated.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
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.	10	
RS.MA-04	N/A	Incidents are escalated or elevated as needed.	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 (6) Recovery.	5	

FDE #	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF #	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
RS.MA-04	N/A	Incidents are escalated or elevated as needed.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
RS.MA-04	N/A	Incidents are escalated or elevated as needed.	Functional	intersects with	Integrated Security Incident Response Team (ISIRT)	IRO-07	Mechanisms exist to establish an integrated team of cybersecurity, IT and business function representatives that are capable of addressing cybersecurity & data privacy incident response operations.	5	
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	
RS.MA-05	N/A	The criteria for initiating incident recovery are applied.	Functional	intersects with	Recovery Operations Criteria	BCD-01.5	Mechanisms exist to define specific 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 (6) Recovery.	5	
RS.AN	N/A	Investigations are conducted to ensure effective response and support forensics and recovery activities.	Functional	intersects with	Chain of Custody & Forensics	IRO-08	Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.	5	
RS.AN-03	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	Mechanisms exist to incorporate lessons learned from analyzing and resolving cybersecurity & data privacy incidents to reduce the likelihood or impact of future incidents.	10	
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	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	
RS.AN-06	N/A	Actions performed during an investigation are recorded, and the records' integrity and provenance are preserved.	Functional	intersects with	Chain of Custody & Forensics	IRO-08	Mechanisms exist to perform digital forensics and maintain the integrity of the chain of custody, in accordance with applicable laws, regulations and industry-recognized secure practices.	5	
RS.AN-06	N/A	Actions performed during an investigation are recorded, and the records' integrity and provenance are preserved.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
RS.AN-07	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	
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	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 (6) Recovery.	5	
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	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	
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	intersects with	Coordination with Related Plans	IRO-06.1	Mechanisms exist to coordinate incident response testing with organizational elements responsible for related plans.	5	
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	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.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	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	
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	Mechanisms exist to report sensitive/regulated data incidents in a timely manner.	5	
RS.CO	N/A	Response activities are coordinated with internal and external stakeholders as required by laws, regulations, or policies.	Functional	intersects with	Supply Chain Coordination	IRO-10.4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident.	5	
RS.CO-02	N/A	Internal and external stakeholders are notified of incidents.	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 (6) Recovery.	5	
RS.CO-02	N/A	Internal and external stakeholders are notified of incidents.	Functional	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	
RS.CO-02	N/A	Internal and external stakeholders are notified of incidents.	Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	Mechanisms exist to report sensitive/regulated data incidents in a timely manner.	5	
RS.CO-02	N/A	Internal and external stakeholders are notified of incidents.	Functional	intersects with	Supply Chain Coordination	IRO-10.4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident.	5	
RS.CO-03	N/A	Information is shared with designated internal and external stakeholders.	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 (6) Recovery.	5	
RS.CO-03	N/A	Information is shared with designated internal and external stakeholders.	Functional	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	
RS.CO-03	N/A	Information is shared with designated internal and external stakeholders.	Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	Mechanisms exist to report sensitive/regulated data incidents in a timely manner.	5	
RS.CO-03	N/A	Information is shared with designated internal and external stakeholders.	Functional	intersects with	Supply Chain Coordination	IRO-10.4	Mechanisms exist to provide cybersecurity & data privacy incident information to the provider of the product or service and other organizations involved in the supply chain for systems or system components related to the incident.	5	
RS.MI	N/A	Activities are performed to prevent expansion of an event and mitigate its effects.	Functional	intersects with	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	5	
RS.MI	N/A	Activities are performed to prevent expansion of an event and mitigate its effects.	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 (6) Recovery.	5	
RS.MI	N/A	Activities are performed to prevent expansion of an event and mitigate its effects.	Functional	intersects with	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	5	
RS.MI-01	N/A	Incidents are contained.	Functional	subset of	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.	10	
RS.MI-02	N/A	Incidents are eradicated.	Functional	subset of	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.	10	
RC	N/A	Assets and operations affected by a cybersecurity incident are restored.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	

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)
RC	N/A	Assets and operations affected by a cybersecurity incident are restored.	Functional	intersects with	Information System Recovery & Reconstitution	BCD-12	Mechanisms exist to ensure the secure recovery and reconstitution of systems to a known state after a disruption, compromise or failure.	5	
RC.RP	N/A	Restoration activities are performed to ensure operational availability of systems and services affected by cybersecurity incidents.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
RC.RP	N/A	Restoration activities are performed to ensure operational availability of systems and services affected by cybersecurity incidents.	Functional	intersects with	Recovery Time / Point Objectives (RTO / RPO)	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
RC.RP	N/A	Restoration activities are performed to ensure operational availability of systems and services affected by cybersecurity incidents.	Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
RC.RP	N/A	Restoration activities are performed to ensure operational availability of systems and services affected by cybersecurity incidents.	Functional	intersects with	Resume All Missions & Business Functions	BCD-02.1	Mechanisms exist to resume all missions and business functions within Recovery Time Objectives (RTOs) of the contingency plan's activation.	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	Mechanisms exist to define specific 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	
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	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	
RC.RP-02	N/A	Recovery actions are selected, scoped, prioritized, and performed.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
RC.RP-02	N/A	Recovery actions are selected, scoped, prioritized, and performed.	Functional	intersects with	Recovery Time / Point Objectives (RTO / RPO)	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
RC.RP-02	N/A	Recovery actions are selected, scoped, prioritized, and performed.	Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
RC.RP-02	N/A	Recovery actions are selected, scoped, prioritized, and performed.	Functional	intersects with	Resume All Missions & Business Functions	BCD-02.1	Mechanisms exist to resume all missions and business functions within Recovery Time Objectives (RTOs) of the contingency plan's activation.	5	
RC.RP-03	N/A	The integrity of backups and other restoration assets is verified before using them for restoration.	Functional	intersects with	Backup & Restoration Hardware Protection	BCD-13	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	Restoration Integrity Verification	BCD-13.1	Mechanisms exist to verify the integrity of backups and other restoration assets prior to using them for restoration.	5	
RC.RP-04	N/A	Critical mission functions and cybersecurity risk management are considered to establish post-incident operational norms.	Functional	subset of	Business Continuity Management System (BCMS)	BCD-01	Mechanisms exist to facilitate the implementation of contingency planning controls to help ensure resilient assets and services (e.g., Continuity of Operations Plan (COOP) or Business Continuity & Disaster Recovery (BC/DR) playbooks).	10	
RC.RP-04	N/A	Critical mission functions and cybersecurity risk management are considered to establish post-incident operational norms.	Functional	intersects with	Recovery Time / Point Objectives (RTO / RPO)	BCD-01.4	Mechanisms exist to facilitate recovery operations in accordance with Recovery Time Objectives (RTOs) and Recovery Point Objectives (RPOs).	5	
RC.RP-04	N/A	Critical mission functions and cybersecurity risk management are considered to establish post-incident operational norms.	Functional	intersects with	Identify Critical Assets	BCD-02	Mechanisms exist to identify and document the critical systems, applications and services that support essential missions and business functions.	5	
RC.RP-04	N/A	Critical mission functions and cybersecurity risk management are considered to establish post-incident operational norms.	Functional	intersects with	Resume All Missions & Business Functions	BCD-02.1	Mechanisms exist to resume all missions and business functions within Recovery Time Objectives (RTOs) of the contingency plan's activation.	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	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.	10	
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	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	
RC.RP-06	N/A	The end of incident recovery is declared based on criteria, and incident related documentation is completed.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	Mechanisms exist to document, monitor and report the status of cybersecurity & data privacy incidents to internal stakeholders all the way through the resolution of the incident.	5	
RC.CO	N/A	Restoration activities are coordinated with internal and external parties.	Functional	intersects with	Coordinate with Related Plans	BCD-01.1	Mechanisms exist to coordinate contingency plan development with internal and external elements responsible for related plans.	5	
RC.CO	N/A	Restoration activities are coordinated with internal and external parties.	Functional	intersects with	Coordinate With External Service Providers	BCD-01.2	Mechanisms exist to coordinate internal contingency plans with the contingency plans of external service providers to ensure that contingency requirements can be satisfied.	5	
RC.CO-03	N/A	Recovery activities and progress in restoring operational capabilities are communicated to designated internal and external stakeholders.	Functional	equal	Recovery Operations Communications	BCD-01.6	Mechanisms exist to communicate the status of recovery activities and progress in restoring operational capabilities to designated internal and external stakeholders.	10	
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	Mechanisms exist to proactively manage public relations associated with incidents and employ appropriate measures to prevent further reputational damage and develop plans to repair any damage to the organization's reputation.	10	