Set Theory Relationship Mapping (STRM) Canada ITSP.10.171

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:

Focal Document URL:

Full strength of Canada systems and organizations (ITSP.10.171)

Https://www.cyber.gc.ca/en/guidance/protecting-controlled-information-non-government-canada-systems-and-organizations-itsp10171

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Https://securecontrolsframework.com/content/strm/scf-strm-americas-canada-itsp-10-171.pdf

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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
03.01.01 03.01.01.A	Account Management Account Management	N/A Define the types of system accounts allowed and prohibited.	Functional	no relationship subset of	N/A Identity & Access Management (IAM)	N/A IAC-01	N/A Mechanisms exist to facilitate the implementation of identification and access management controls.	N/A 10	No requirements to map to.
03.01.01.A	Account Management	Define the types of system accounts allowed and prohibited.	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary	5	
03.01.01.B	Account Management	Create, enable, modify, disable, and remove system accounts in accordance with policy, procedures, prerequisites, and criteria.	Functional	intersects with	Account Management	IAC-15	accounts. Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary	5	
03.01.01.B	Account Management	Create, enable, modify, disable, and remove system accounts in accordance with policy, procedures, prerequisites, and criteria.	Functional	intersects with	Management Approval For New or Changed Accounts	IAC-28.1	accounts. Mechanisms exist to ensure management approvals are required for new accounts or changes in permissions to existing accounts.	5	
03.01.01.C	Account Management	Specify:	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to manage personnel security risk by assigning a risk	N/A	No requirements to map to.
03.01.01.C.01	Account Management	Authorized users of the system,	Functional	intersects with	Position Categorization	HRS-02	designation to all positions and establishing screening criteria for individuals filling those positions.	5	
03.01.01.C.01	Account Management	Authorized users of the system,	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	
03.01.01.C.01	Account Management	Authorized users of the system,	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
03.01.01.C.01	Account Management	Authorized users of the system,	Functional	intersects with	Restrictions on Shared Groups / Accounts	IAC-15.5	Mechanisms exist to authorize the use of shared/group accounts only under certain organization-defined conditions.	5	
03.01.01.C.02	Account Management	Group and role membership, and	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	
03.01.01.C.02	Account Management	Group and role membership, and	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. Mechanisms exist to proactively govern account management of	5	
03.01.01.C.02	Account Management	Group and role membership, and	Functional	intersects with	Account Management	IAC-15	individual, group, system, service, application, guest and temporary accounts. Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy	5	
03.01.01.C.03	Account Management	Access authorizations (i.e., privileges) for each account.	Functional	intersects with	Role-Based Access Control (RBAC)	IAC-08	over users and resources that applies need-to-know and fine-grained access control for sensitive/regulated data access. Mechanisms exist to enforce Logical Access Control (LAC) permissions	5	
03.01.01.C.03	Account Management Account Management	Access authorizations (i.e., privileges) for each account.	Functional	intersects with	Access Enforcement Access To Sensitive /	IAC-20	that conform to the principle of "least privilege." Mechanisms exist to limit access to sensitive/regulated data to only	5	
03.01.01.C.03	Account Management	Access authorizations (i.e., privileges) for each account. Access authorizations (i.e., privileges) for each account.	Functional	intersects with	Regulated Data Least Privilege	IAC-20.1	those individuals whose job requires such access. Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks	5	
03.01.01.D	Account Management	Authorize access to the system based on:	Functional	no relationship	N/A	N/A	in accordance with organizational business functions. N/A	N/A	No requirements to map to.
03.01.01.D.01	Account Management	A valid access authorization and	Functional	intersects with	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	5	
03.01.01.D.01	Account Management	A valid access authorization and	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
03.01.01.D.01	Account Management	A valid access authorization and	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	
03.01.01.D.01	Account Management	A valid access authorization and	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts. Mechanisms exist to enforce Logical Access Control (LAC) permissions	5	
03.01.01.D.01	Account Management	A valid access authorization and	Functional	intersects with	Access Enforcement Access To Sensitive /	IAC-20	that conform to the principle of "least privilege." Mechanisms exist to limit access to sensitive/regulated data to only	5	
03.01.01.D.01	Account Management Account Management	A valid access authorization and A valid access authorization and	Functional	intersects with	Regulated Data	IAC-20.1	those individuals whose job requires such access. Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks	5	
							in accordance with organizational business functions. Mechanisms exist to facilitate the implementation of data protection		
03.01.01.D.02	Account Management	Intended system usage.	Functional	intersects with	Data Protection Sensitive / Regulated	DCH-01	Controls. Mechanisms exist to racticate the implementation of data protection controls. Mechanisms exist to protect sensitive/regulated data wherever it is	5	
03.01.01.D.02	Account Management	Intended system usage.	Functional	intersects with	Data Protection	DCH-01.2	stored. Mechanisms exist to manage personnel security risk by assigning a risk	5	
03.01.01.D.02	Account Management	Intended system usage.	Functional	intersects with	Position Categorization	HRS-02	designation to all positions and establishing screening criteria for individuals filling those positions. Mechanisms exist to proactively govern account management of	5	
03.01.01.D.02	Account Management	Intended system usage.	Functional	intersects with	Account Management	IAC-15	individual, group, system, service, application, guest and temporary accounts.	5	
03.01.01.D.02	Account Management	Intended system usage.	Functional	intersects with	Access Enforcement Access To Sensitive /	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege." Mechanisms exist to limit access to sensitive/regulated data to only	5	
03.01.01.D.02	Account Management	Intended system usage.	Functional	intersects with	Regulated Data	IAC-20.1	those individuals whose job requires such access.	5	
03.01.01.D.02	Account Management	Intended system usage.	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	
03.01.01.E	Account Management	Monitor the use of system accounts.	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
03.01.01.E	Account Management	Monitor the use of system accounts.	Functional	intersects with	System Account Reviews	IAC-15.7	Mechanisms exist to review all system accounts and disable any account that cannot be associated with a business process and owner.	5	
03.01.01.E	Account Management	Monitor the use of system accounts.	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	
03.01.01.F	Account Management	Disable system accounts when:	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to proactively govern account management of	N/A	No requirements to map to.
03.01.01.F.01	Account Management	The accounts have expired,	Functional	intersects with	Account Management	IAC-15	individual, group, system, service, application, guest and temporary accounts.	5	
03.01.01.F.02	Account Management	The accounts have been inactive for [Assignment: organization-defined time period],	Functional	intersects with	Disable Inactive Accounts	IAC-15.3	Automated mechanisms exist to disable inactive accounts after an organization-defined time period.	5	
03.01.01.F.03	Account Management	The accounts are no longer associated with a user or individual,	Functional	intersects with	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	5	
03.01.01.F.03	Account Management	The accounts are no longer associated with a user or individual,	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts. Mechanisms exist to sanction personnel failing to comply with	5	
03.01.01.F.04	Account Management	The accounts are in violation of organizational policy, or	Functional	intersects with	Personnel Sanctions	HRS-07	established security policies, standards and procedures.	5	
03.01.01.F.04	Account Management	The accounts are in violation of organizational policy, or	Functional	intersects with	Workplace Investigations	HRS-07.1	Mechanisms exist to conduct employee misconduct investigations when there is reasonable assurance that a policy has been violated. Mechanisms exist to proactively govern account management of	5	
03.01.01.F.04	Account Management	The accounts are in violation of organizational policy, or	Functional	intersects with	Account Management	IAC-15	individual, group, system, service, application, guest and temporary accounts.	5	
03.01.01.F.04	Account Management	The accounts are in violation of organizational policy, or	Functional	intersects with	Account Disabling for High Risk Individuals	IAC-15.6	Mechanisms exist to disable accounts immediately upon notification for users posing a significant risk to the organization.	5	
03.01.01.F.05	Account Management	Significant risks associated with individuals are discovered.	Functional	intersects with	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
03.01.01.F.05	Account Management	Significant risks associated with individuals are discovered.	Functional	intersects with	Workplace Investigations	HRS-07.1	Mechanisms exist to conduct employee misconduct investigations when there is reasonable assurance that a policy has been violated.	5	



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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
03.01.01.F.05	Account Management	Significant risks associated with individuals are discovered.	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary	(optional) 5	
03.01.01.F.05	Account Management	Significant risks associated with individuals are discovered.	Functional	intersects with	Account Disabling for	IAC-15.6	accounts. Mechanisms exist to disable accounts immediately upon notification for	5	
03.01.01.G	Account Management	Notify account managers and designated personnel or roles within:	Functional	no relationship	High Risk Individuals N/A	N/A	users posing a significant risk to the organization. N/A	N/A	No requirements to map to.
03.01.01.G.01	Account Management	[Assignment: organization-defined time period] when accounts are no longer required.	Functional	intersects with	User Provisioning & De- Provisioning	IAC-07	Mechanisms exist to utilize a formal user registration and de-registration process that governs the assignment of access rights.	8	
03.01.01.G.01	Account Management	[Assignment: organization-defined time period] when accounts are no longer required.	Functional	intersects with	Change of Roles & Duties	IAC-07.1	Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.	5	
03.01.01.G.01	Account Management	[Assignment: organization-defined time period] when accounts are no longer	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary	5	
	_	required. [Assignment: organization-defined time period] when users are terminated or			Human Resources		Mechanisms exist to facilitate the implementation of personnel security		
03.01.01.G.02	Account Management	transferred.	Functional	intersects with	Security Management	HRS-01	controls. Mechanisms exist to adjust logical and physical access authorizations to	5	
03.01.01.G.02	Account Management	[Assignment: organization-defined time period] when users are terminated or transferred.	Functional	intersects with	Personnel Transfer	HRS-08	systems and facilities upon personnel reassignment or transfer, in a timely manner.	3	
03.01.01.G.02	Account Management	[Assignment: organization-defined time period] when users are terminated or	Functional	intersects with	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	3	
03.01.01.G.02	Account Management	transferred. [Assignment: organization-defined time period] when users are terminated or	Functional	intersects with	Automated Employment	HRS-09.4	Automated mechanisms exist to notify Identity and Access Management	5	
03.01.01.0.02	Account Management	transferred.	Pulictional	intersects with	Status Notifications	HN3-09.4	(IAM) personnel or roles upon termination of an individual employment or contract.		
03.01.01.G.02	Account Management	[Assignment: organization-defined time period] when users are terminated or transferred.	Functional	intersects with	User Provisioning & De- Provisioning	IAC-07	Mechanisms exist to utilize a formal user registration and de-registration process that governs the assignment of access rights.	8	
03.01.01.G.02	Account Management	[Assignment: organization-defined time period] when users are terminated or transferred.	Functional	intersects with	Change of Roles & Duties	IAC-07.1	Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.	5	
03.01.01.G.02	Account Management	[Assignment: organization-defined time period] when users are terminated or transferred.	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary	5	
03.01.01.G.03	Account Management	[Assignment: organization-defined time period] when system usage or the	Functional	intersects with	User Provisioning & De-	IAC-07	accounts. Mechanisms exist to utilize a formal user registration and de-registration	8	
	_	need-to-know changes for an individual. [Assignment: organization-defined time period] when system usage or the			Provisioning		process that governs the assignment of access rights. Mechanisms exist to revoke user access rights following changes in		
03.01.01.G.03	Account Management	need-to-know changes for an individual.	Functional	intersects with	Change of Roles & Duties	IAC-07.1	personnel roles and duties, if no longer necessary or permitted. Mechanisms exist to proactively govern account management of	5	
03.01.01.G.03	Account Management	[Assignment: organization-defined time period] when system usage or the need-to-know changes for an individual.	Functional	intersects with	Account Management	IAC-15	individual, group, system, service, application, guest and temporary accounts.	5	
		[Assignment: organization-defined time period] when system usage or the			Periodic Review of		Mechanisms exist to periodically-review the privileges assigned to		
03.01.01.G.03	Account Management	[Assignment: organization-defined time period] when system usage or the need-to-know changes for an individual.	Functional	intersects with	Account Privileges	IAC-17	individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	5	
00.51.51		Require that users log out of the system after [Assignment: organization-			System Hardening	0	Mechanisms exist to develop, document and maintain secure baseline		
03.01.01.H	Account Management	defined time period] of expected inactivity or when [Assignment: organization- defined circumstances].	Functional	intersects with	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry- accepted system hardening standards.	5	
03.01.01.H	Account Management	Require that users log out of the system after [Assignment: organization- defined time period] of expected inactivity or when [Assignment: organization-	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	
		defined circumstances]. Require that users log out of the system after [Assignment: organization-			Use of Communications		Mechanisms exist to establish usage restrictions and implementation		
03.01.01.H	Account Management	defined time period] of expected inactivity or when [Assignment: organization- defined circumstances].	Functional	intersects with	Use of Communications Technology	HRS-05.3	guidance for communications technologies based on the potential to cause damage to systems, if used maliciously.	5	
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system	Functional	intersects with	Sensitive / Regulated Data Access	CFG-08	Mechanisms exist to configure systems, applications and processes to	5	
03.01.02	Access Emolcement	resources in accordance with applicable access control policies.	Tunctionat	IIIteraecta with	Enforcement	C1 G-08	restrict access to sensitive/regulated data.		
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system resources in accordance with applicable access control policies.	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system	Functional	intersects with	Defining Access Authorizations for	DCH-01.4	Mechanisms exist to explicitly define authorizations for specific individuals and/or roles for logical and /or physical access to	5	
		resources in accordance with applicable access control policies.			Sensitive/Regulated Data		sensitive/regulated data.		
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system	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	5	
		resources in accordance with applicable access control policies.					individuals filling those positions. Mechanisms exist to ensure that every user accessing a system that		
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system resources in accordance with applicable access control policies.	Functional	intersects with	Users With Elevated Privileges	HRS-02.1	processes, stores, or transmits sensitive information is cleared and regularly trained to handle the information in question.	5	
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system	Functional	intersects with	Role-Based Access	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	5	
00.01.02	7100000 Emorodinant	resources in accordance with applicable access control policies.	Tunotionat	III.CI GOOLG WILLI	Control (RBAC)	1710 00	Access control for sensitive/regulated data access. Mechanisms exist to proactively govern account management of		
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system resources in accordance with applicable access control policies.	Functional	intersects with	Account Management	IAC-15	individual, group, system, service, application, guest and temporary	5	
03.01.02	Access Enforcement	Enforce approved authorizations for logical access to CI and system	Functional	subset of	Access Enforcement	IAC-20	accounts. Mechanisms exist to enforce Logical Access Control (LAC) permissions	10	
03.01.02	Access Enforcement	resources in accordance with applicable access control policies. Enforce approved authorizations for logical access to CI and system	Functional	intersects with	Access To Sensitive /	IAC-20.1	that conform to the principle of "least privilege." Mechanisms exist to limit access to sensitive/regulated data to only	5	
03.01.03	Information Flow	resources in accordance with applicable access control policies. Enforce approved authorizations for controlling the flow of CI within the	Functional	intersects with	Regulated Data Asset Governance	AST-01	those individuals whose job requires such access. Mechanisms exist to facilitate an IT Asset Management (ITAM) program	3	
	Enforcement Information Flow	system and between connected systems. Enforce approved authorizations for controlling the flow of CI within the			Asset-Service		to implement and manage asset management controls. Mechanisms exist to identify and assess the security of technology		
03.01.03	Enforcement	system and between connected systems.	Functional	intersects with	Dependencies	AST-01.1	assets that support more than one critical business function.	8	
	Information Flow	Enforce approved authorizations for controlling the flow of CI within the			Network Diagrams &		Mechanisms exist to maintain network architecture diagrams that: (1) Contain sufficient detail to assess the security of the network's		
03.01.03	Enforcement	system and between connected systems.	Functional	intersects with	Data Flow Diagrams (DFDs)	AST-04	architecture; (2) Reflect the current architecture of the network environment; and	8	
							(3) Document all sensitive/regulated data flows.		
	Information Flow	Enforce approved authorizations for controlling the flow of CI within the			Compliance-Specific	407 -	Mechanisms exist to create and maintain a current inventory of systems, applications and services that are in scope for statutory, regulatory	_	
03.01.03	Enforcement	system and between connected systems.	Functional	intersects with	Asset Identification	AST-04.3	and/or contractual compliance obligations that provides sufficient detail to determine control applicability, based on asset scope categorization.	8	
03.01.03	Information Flow	Enforce approved authorizations for controlling the flow of CI within the	Functional	intersects with	Asset Categorization	AST-31		8	
03.01.03	Enforcement	system and between connected systems.	runctional	intersects with		Mai-31	Mechanisms exist to categorize technology assets.	ő	
03.01.03	Information Flow Enforcement	Enforce approved authorizations for controlling the flow of CI within the system and between connected systems.	Functional	intersects with	Defining Access Authorizations for	DCH-01.4	Mechanisms exist to explicitly define authorizations for specific individuals and/or roles for logical and /or physical access to	8	
	Information Flow	Enforce approved authorizations for controlling the flow of CI within the			Sensitive/Regulated Data		sensitive/regulated data. Mechanisms exist to control and restrict access to digital and non-digital		
03.01.03	Enforcement	system and between connected systems.	Functional	intersects with	Media Access	DCH-03	media to authorized individuals.	5	
03.01.03	Information Flow	Enforce approved authorizations for controlling the flow of CI within the	Functional	intersects with	Data Access Mapping	DCH-14.3	Mechanisms exist to leverages a data-specific Access Control List (ACL) or Interconnection Security Agreements (ISAs) to generate a logical map	5	
	Enforcement	system and between connected systems.					of the parties with whom sensitive/regulated data is shared.		
03.01.03	Information Flow Enforcement	Enforce approved authorizations for controlling the flow of CI within the system and between connected systems.	Functional	subset of	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	10	
03.01.03	Information Flow Enforcement	Enforce approved authorizations for controlling the flow of CI within the system and between connected systems.	Functional	subset of	Access To Sensitive / Regulated Data	IAC-20.1	Mechanisms exist to limit access to sensitive/regulated data to only those individuals whose job requires such access.	10	
03.01.03	Information Flow	Enforce approved authorizations for controlling the flow of CI within the	Functional	intersects with	Data Flow Enforcement – Access Control Lists	NET-04	Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and	5	
	Enforcement	system and between connected systems.			(ACLs)		internal systems. Mechanisms exist to authorize connections from systems to other	-	
03.01.03	Information Flow	Enforce approved authorizations for controlling the flow of CI within the	Functional	intersectsit	System Interconnections	NET-05	systems using Interconnection Security Agreements (ISAs), or similar methods, that document, for each interconnection, the interface	5	
03.01.03	Enforcement	system and between connected systems.	i uncuonat	micersects with	Cyatem interconnections	1451-05	characteristics, cybersecurity & data privacy requirements and the	5	
							nature of the information communicated. Mechanisms exist to control internal system connections through		
03.01.03	Information Flow Enforcement	Enforce approved authorizations for controlling the flow of CI within the system and between connected systems.	Functional	intersects with	Internal System Connections	NET-05.2	authorizing internal connections of systems and documenting, for each internal connection, the interface characteristics, security requirements	5	
		1	i	1		1	and the nature of the information communicated.		1
03.01.04	Separation of Duties	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.



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)
03.01.04.A	Separation of Duties	Identify the duties of individuals requiring separation.	Functional	intersects with	Incompatible Roles	HRS-12	Mechanisms exist to avoid incompatible development-specific roles through limiting and reviewing developer privileges to change hardware, software and firmware components within a production/operational	(optional)	
03.01.04.B	Separation of Duties	Define system access authorizations to support separation of duties.	Functional	intersects with	Defining Access Authorizations for Sensitive/Regulated Data	DCH-01.4	environment. Mechanisms exist to explicitly define authorizations for specific individuals and/or roles for logical and /or physical access to sensitive/regulated data.	8	
03.01.04.B	Separation of Duties	Define system access authorizations to support separation of duties.	Functional	intersects with	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	5	
03.01.04.B	Separation of Duties	Define system access authorizations to support separation of duties.	Functional	intersects with	Access To Sensitive / Regulated Data	IAC-20.1	Mechanisms exist to limit access to sensitive/regulated data to only those individuals whose job requires such access.	5	
03.01.04.B	Separation of Duties	Define system access authorizations to support 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	
03.01.05	Least Privilege	N/A Allow only authorized system access for users (or processes acting on behalf	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to enforce Logical Access Control (LAC) permissions	N/A	No requirements to map to.
03.01.05.A	Least Privilege	of users) that is necessary to accomplish assigned organizational tasks.	Functional	subset of	Access Enforcement	IAC-20	that conform to the principle of "least privilege."	10	
03.01.05.A	Least Privilege	Allow only authorized system access for users (or processes acting on behalf of users) that is necessary to accomplish assigned organizational tasks.	Functional	subset of	Access To Sensitive / Regulated Data	IAC-20.1	Mechanisms exist to limit access to sensitive/regulated data to only those individuals whose job requires such access.	10	
03.01.05.A	Least Privilege	Allow only authorized system access for users (or processes acting on behalf of users) that is necessary to accomplish assigned organizational tasks.	Functional	equal	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.	10	
03.01.05.B	Least Privilege	Authorize access to [Assignment: organization-defined security functions] and [Assignment: organization-defined security-relevant information].	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	
03.01.05.B	Least Privilege	Authorize access to [Assignment: organization-defined security functions] and [Assignment: organization-defined security-relevant information].	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
03.01.05.B	Least Privilege	Authorize access to [Assignment: organization-defined security functions] and [Assignment: organization-defined security-relevant information].	Functional	intersects with	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	5	
03.01.05.B	Least Privilege	Authorize access to [Assignment: organization-defined security functions] and [Assignment: organization-defined security-relevant information].	Functional	equal	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.	10	
03.01.05.C	Least Privilege	Review the privileges assigned to roles or classes of users [Assignment: organization-defined frequency] to validate the need for such privileges.	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
03.01.05.C	Least Privilege	Review the privileges assigned to roles or classes of users [Assignment: organization-defined frequency] to validate the need for such privileges.	Functional	intersects with	System Account Reviews	IAC-15.7	Mechanisms exist to review all system accounts and disable any account that cannot be associated with a business process and owner.	5	
03.01.05.C	Least Privilege	Review the privileges assigned to roles or classes of users [Assignment: organization-defined frequency] to validate the need for such privileges.	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	5	
03.01.05.D	Least Privilege	Reassign or remove privileges, as necessary.	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and temporary accounts.	5	
03.01.05.D	Least Privilege	Reassign or remove privileges, as necessary.	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	5	
03.01.06	Least Privilege – Privileged Accounts	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.01.06.A	Least Privilege – Privileged Accounts	Restrict privileged accounts on the system to [Assignment: organization-defined personnel or roles]	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	
03.01.06.A	Least Privilege – Privileged Accounts	Restrict privileged accounts on the system to [Assignment: organization- defined personnel or roles]	Functional	intersects with	Privileged Account Management (PAM)	IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
03.01.06.A	Least Privilege – Privileged Accounts	Restrict privileged accounts on the system to [Assignment: organization- defined personnel or roles]	Functional	intersects with	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	5	
03.01.06.A	Least Privilege – Privileged Accounts	Restrict privileged accounts on the system to [Assignment: organization-defined personnel or roles]	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	
03.01.06.A	Least Privilege – Privileged Accounts	Restrict privileged accounts on the system to [Assignment: organization-defined personnel or roles]	Functional	intersects with	Privileged Accounts	IAC-21.3	Mechanisms exist to restrict the assignment of privileged accounts to organization-defined personnel or roles without management approval.	5	
03.01.06.B	Least Privilege – Privileged Accounts	Require that users (or roles) with privileged accounts use non-privileged accounts when accessing non-security functions or non-security information.	Functional	intersects with	Non-Privileged Access for Non-Security Functions	IAC-21.2	Mechanisms exist to prohibit privileged users from using privileged accounts, while performing non-security functions.	5	
03.01.07	Least Privilege – Privileged Functions	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.01.07.A	Least Privilege – Privileged Functions	Prevent non-privileged users from executing privileged functions.	Functional	intersects with	Privileged Account Management (PAM)	IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
03.01.07.A	Least Privilege – Privileged Functions	Prevent non-privileged users from executing privileged functions.	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	
03.01.07.A	Least Privilege – Privileged Functions	Prevent non-privileged users from executing privileged functions.	Functional	intersects with	Privileged Accounts	IAC-21.3	Mechanisms exist to restrict the assignment of privileged accounts to organization-defined personnel or roles without management approval.	5	
03.01.07.A	Least Privilege – Privileged Functions	Prevent non-privileged users from executing privileged functions.	Functional	equal	Prohibit Non-Privileged Users from Executing Privileged Functions	IAC-21.5	Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabling, circumventing or altering implemented security safeguards / countermeasures.	10	
03.01.07.B	Least Privilege – Privileged Functions	Log the execution of privileged functions.	Functional	intersects with	Privileged Account Identifiers	IAC-09.5	Mechanisms exist to uniquely manage privileged accounts to identify the account as a privileged user or service.	5	
03.01.07.B	Least Privilege – Privileged Functions	Log the execution of privileged functions.	Functional	intersects with	Privileged Account Management (PAM)	IAC-16	Mechanisms exist to restrict and control privileged access rights for users and services.	5	
03.01.07.B	Least Privilege – Privileged Functions	Log the execution of privileged functions.	Functional	intersects with	Auditing Use of Privileged Functions	IAC-21.4	Mechanisms exist to audit the execution of privileged functions.	5	
03.01.07.B	Least Privilege – Privileged Functions	Log the execution of privileged functions.	Functional	intersects with	Privileged User Oversight	MON-01.15	Mechanisms exist to implement enhanced activity monitoring for privileged users. Mechanisms exist to log and review the actions of users and/or services	5	
03.01.07.B	Least Privilege – Privileged Functions Unsuccessful Logon	Log the execution of privileged functions.	Functional	intersects with	Privileged Functions Logging	MON-03.3	with elevated privileges.	5	
03.01.08 03.01.08.A	Unsuccessful Logon Attempts Unsuccessful Logon Attempts	N/A Enforce a limit of [Assignment: organization-defined number] consecutive invalid logon attempts by a user during a [Assignment: organization-defined time period].	Functional	no relationship	N/A System Hardening Through Baseline Configurations	N/A CFG-02	N/A Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry- accepted system hardening standards.	N/A 10	No requirements to map to.
03.01.08.A	Unsuccessful Logon Attempts	Enforce a limit of [Assignment: organization-defined number] consecutive invalid logon attempts by a user during a [Assignment: organization-defined time period].	Functional	intersects with	Account Lockout	IAC-22	accepture system returning sentences. In the Consecutive invalid login attempts by a user during an organization-defined time period and automatically locks the account when the maximum number of unsuccessful attempts is exceeded.	5	
03.01.08.B	Unsuccessful Logon Attempts	Automatically [Selection (one or more): lock the account or node for an [Assignment: organization-defined time period); lock the account or node until released by an administrator; delay next logon prompt; notily system administrator, take other action] when the maximum number of unsuccessful attempts is exceeded.	Functional	subset of	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.	10	
03.01.08.B	Unsuccessful Logon Attempts	Automatically [Selection (one or more): look the account or node for an [Assigment or organization-defined time period]; look the account or node until released by an administrator; delay next logon prompt; notify system administrator; take other action] when the maximum number of unsuccessful attempts is exceeded.	Functional	intersects with	Account Lockout	IAC-22	Mechanisms exist to enforce a limit for consecutive invalid login attempts by a user during an organization-defined time period and automatically locks the account when the maximum number of unsuccessful attempts is exceeded.	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)
03.01.09	System Use Notification	Display a system use notification message with privacy and security notices consistent with applicable CI rules before granting access to the system.	Functional	subset of	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.	10	
03.01.09	System Use Notification	Display a system use notification message with privacy and security notices consistent with applicable CI rules before granting access to the system.	Functional	subset of	System Use Notification (Logon Banner)	SEA-18	Mechanisms exist to utilize system use notification / logon banners that display an approved system use notification message or banner before granting access to the system that provides cybersecurity & data privacy notices.	10	
03.01.09	System Use Notification	Display a system use notification message with privacy and security notices consistent with applicable CI rules before granting access to the system.	Functional	intersects with	Standardized Microsoft Windows Banner	SEA-18.1	Mechanisms exist to configure Microsoft Windows-based systems to display an approved logon banner before granting access to the system that provides cybersecurity & data privacy notices.	8	
03.01.09	System Use Notification	Display a system use notification message with privacy and security notices consistent with applicable CI rules before granting access to the system.	Functional	intersects with	Truncated Banner	SEA-18.2	Mechanisms exist to utilize a truncated system use notification / logon banner on systems not capable of displaying a logon banner from a centralized source, such as Active Directory.	8	
03.01.10 03.01.10.A	Device Lock Device Lock	N/A Prevent access to the system by [Selection (one or more): initiating a device lock after [Assignment: organization-defined time period] of inactivity; requiring the user to initiate a device lock before leaving the system	Functional	no relationship	N/A System Hardening Through Baseline Configurations	N/A CFG-02	NVA Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	N/A 10	No requirements to map to.
03.01.10.A	Device Lock	unattended]. Prevent access to the system by [Selection (one or more): initiating a device lock after [Assignment: organization-defined time period] of inactivity; requiring the user to initiate a device lock before leaving the system unattended].	Functional	subset of	Session Lock	IAC-24	Mechanisms exist to initiate a session lock after an organization-defined time period of inactivity, or upon receiving a request from a user and retain the session lock until the user reestablishes access using established identification and authentication methods.	10	
03.01.10.B	Device Lock	Retain the device lock until the user reestablishes access using established identification and authentication procedures.	Functional	subset of	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.	10	
03.01.10.B	Device Lock	Retain the device lock until the user reestablishes access using established identification and authentication procedures.	Functional	subset of	Session Lock	IAC-24	Mechanisms exist to initiate a session lock after an organization-defined time period of inactivity, or upon receiving a request from a user and retain the session lock until the user reestablishes access using	10	
03.01.10.C	Device Lock	Conceal, via the device lock, information previously visible on the display with a publicly viewable image.	Functional	subset of	System Hardening Through Baseline Configurations	CFG-02	established identification and authentication methods. Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening standards.	10	
03.01.10.C	Device Lock	Conceal, via the device lock, information previously visible on the display with a publicly viewable image.	Functional	equal	Pattern-Hiding Displays	IAC-24.1	Mechanisms exist to implement pattern-hiding displays to conceal information previously visible on the display during the session lock.	10	
03.01.11	Session Termination	Terminate a user session automatically after [Assignment: organization- defined conditions or trigger events requiring session disconnect].	Functional	subset of	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.	10	
03.01.11	Session Termination	Terminate a user session automatically after [Assignment: organization-defined conditions or trigger events requiring session disconnect].	Functional	equal	Session Termination	IAC-25	Automated mechanisms exist to log out users, both locally on the network and for remote sessions, at the end of the session or after an	10	
03.01.12	Remote Access	N/A	Functional	no relationship	N/A	N/A	organization-defined period of inactivity. N/A	N/A	No requirements to map to.
03.01.12.A	Remote Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of allowable remote system access.	Functional	intersects with	Jump Server	AST-27	Mechanisms exist to conduct remote system administrative functions via a "jump box" or "jump server" that is located in a separate network zone to user workstations.	5	
03.01.12.A	Remote Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	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. Mechanisms exist to define acceptable and unacceptable rules of	5	
03.01.12.A	Remote Access	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Rules of Behavior Use of Communications	HRS-05.1	behavior for the use of technologies, including consequences for unacceptable behavior. Mechanisms exist to establish usage restrictions and implementation	5	
03.01.12.A	Remote Access	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Technology Role-Based Access	HRS-05.3	guidance for communications technologies based on the potential to cause damage to systems, if used maliciously. Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy	5	
03.01.12.A	Remote Access	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Control (RBAC)	IAC-08	over users and resources that applies need-to-know and fine-grained access control for sensitive/regulated data access. Mechanisms exist to develop, govern & update procedures to facilitate	5	
03.01.12.A	Remote Access	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	Functional	subset of	Controls (NSC)	NET-01	the implementation of Network Security Controls (NSC). Mechanisms exist to monitor and control communications at the	10	
03.01.12.A	Remote Access	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Boundary Protection	NET-03	external network boundary and at key internal boundaries within the network. Mechanisms exist to define, control and review organization-approved,	5	
03.01.12.A 03.01.12.A	Remote Access	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection requirements for each type of allowable remote system access.	Functional	intersects with	Protection of Confidentiality / Integrity	NET-14.2	secure remote access methods. Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).	5	
03.01.12.A	Remote Access	Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Using Encryption Work From Anywhere (WFA) - Telecommuting	NET-14.5	Mechanisms exist to define secure telecommuting practices and govern	5	
	B	requirements for each type of allowable remote system access. Establish usage restrictions, configuration requirements, and connection	F		Security Secure Engineering	051.04	remote access to systems and data for remote workers. Mechanisms exist to facilitate the implementation of industry-recognized	40	
03.01.12.A	Remote Access	requirements for each type of allowable remote system access.	Functional	subset of	Principles	SEA-01	cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to develop an enterprise architecture, aligned with	10	
03.01.12.A	Remote Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of allowable remote system access.	Functional	intersects with	Alignment With Enterprise Architecture	SEA-02	industry-recognized leading practices, with consideration for cybersecurity & data privacy principles that addresses risk to organizational operations, assets, individuals, other organizations.	5	
03.01.12.B	Remote Access	Authorize each type of remote system access prior to establishing such connections.	Functional	intersects with	Remote Access	NET-14	Mechanisms exist to define, control and review organization-approved, secure remote access methods.	5	
03.01.12.B	Remote Access	Authorize each type of remote system access prior to establishing such connections.	Functional	intersects with	Automated Monitoring & Control	NET-14.1	Automated mechanisms exist to monitor and control remote access sessions.	5	
03.01.12.B 03.01.12.C	Remote Access	Authorize each type of remote system access prior to establishing such connections. Route remote access to the system through authorized and managed access	Functional	intersects with	Managed Access Control Points Jump Server	NET-14.3 AST-27	Mechanisms exist to route all remote accesses through managed network access control points (e.g., VPN concentrator). Mechanisms exist to conduct remote system administrative functions via a "jump box" or "jump server" that is located in a separate network zone	5	
03.01.12.C	Remote Access	control points. Route remote access to the system through authorized and managed access	Functional	intersects with	Remote Access	NET-14	to user workstations. Mechanisms exist to define, control and review organization-approved,	5	
03.01.12.C	Remote Access	control points. Route remote access to the system through authorized and managed access	Functional	intersects with	Managed Access Control	NET-14.3	secure remote access methods. Mechanisms exist to route all remote accesses through managed	5	
03.01.12.C	Remote Access	control points. Route remote access to the system through authorized and managed access control points.	Functional	intersects with	Points Work From Anywhere (WFA) - Telecommuting Security	NET-14.5	network access control points (e.g., VPN concentrator). Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.	5	
03.01.12.D	Remote Access	Authorize the remote execution of privileged commands and remote access to security-relevant information.	Functional	intersects with	Remote Maintenance	MNT-05	Mechanisms exist to authorize, monitor and control remote, non-local maintenance and diagnostic activities.	5	
03.01.12.D	Remote Access	Authorize the remote execution of privileged commands and remote access	Functional	intersects with	Remote Access	NET-14	Mechanisms exist to define, control and review organization-approved,	5	
03.01.12.D	Remote Access	to security-relevant information. Authorize the remote execution of privileged commands and remote access to security-relevant information.	Functional	intersects with	Remote Privileged Commands & Sensitive Data Access	NET-14.4	secure remote access methods. Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs.	5	
03.01.13 03.01.14		Withdrawn by NIST. Withdrawn by NIST.	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.01.15	Not Allocated Wireless Access	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	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	The state of the s
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	Functional	intersects with	Wireless Access Authentication & Encryption	CRY-07	Mechanisms exist to protect the confidentiality and integrity of wireless networking technologies by implementing authentication and strong encryption.	5	
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	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	
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	Functional	intersects with	Guest Networks	NET-02.2	Mechanisms exist to implement and manage a secure guest network.	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)
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	Functional	intersects with	Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized wireless access.	(optional) 5	
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	Functional	intersects with	Authentication & Encryption	NET-15.1	Mechanisms exist to protect wireless access through authentication and strong encryption.	5	
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	Functional	intersects with	Restrict Configuration By Users	NET-15.3	Mechanisms exist to identify and explicitly authorize users who are allowed to independently configure wireless networking capabilities.	5	
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	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	
03.01.16.A	Wireless Access	Establish usage restrictions, configuration requirements, and connection requirements for each type of wireless access to the system.	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	
03.01.16.B	Wireless Access	Authorize each type of wireless access to the system prior to establishing such connections.	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	
03.01.16.B	Wireless Access	Authorize each type of wireless access to the system prior to establishing such connections.	Functional	intersects with	Guest Networks	NET-02.2	Mechanisms exist to implement and manage a secure guest network.	5	
03.01.16.B	Wireless Access	Authorize each type of wireless access to the system prior to establishing such connections.	Functional	intersects with	Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized wireless access.	5	
03.01.16.B	Wireless Access	Authorize each type of wireless access to the system prior to establishing such connections.	Functional	intersects with	Authentication & Encryption	NET-15.1	Mechanisms exist to protect wireless access through authentication and strong encryption.	5	
03.01.16.B	Wireless Access	Authorize each type of wireless access to the system prior to establishing such connections.	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	
03.01.16.C	Wireless Access	Disable, when not intended for use, wireless networking capabilities prior to issuance and deployment.	Functional	intersects with	Disable Wireless Networking	NET-15.2	Mechanisms exist to disable unnecessary wireless networking capabilities that are internally embedded within system components prior to issuance to end users.	5	
03.01.16.C	Wireless Access	Disable, when not intended for use, wireless networking capabilities prior to issuance and deployment.	Functional	intersects with	Restrict Configuration By Users	NET-15.3	Mechanisms exist to identify and explicitly authorize users who are allowed to independently configure wireless networking capabilities.	5	
03.01.16.C	Wireless Access	Disable, when not intended for use, wireless networking capabilities prior to issuance and deployment.	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	
03.01.16.D	Wireless Access	Protect wireless access to the system using authentication and encryption.	Functional	equal	Authentication & Encryption	NET-15.1	Mechanisms exist to protect wireless access through authentication and strong encryption.	10	
03.01.17	Not Allocated Access Control for	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.01.18.A	Mobile Devices Access Control for	Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program	5	No requirements to map to.
03.01.18.A	Mobile Devices Access Control for Mobile Devices	requirements for mobile devices. Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Use of Personal Devices	AST-12	to implement and manage asset management controls. Mechanisms exist to restrict the possession and usage of personally- owned technology devices within organization-controlled facilities.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Use of Third-Party Devices	AST-13	Mechanisms exist to reduce the risk associated with third-party assets that are attached to the network from harming organizational assets or	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Usage Parameters	AST-14	exfiltrating organizational data. Mechanisms exist to monitor and enforce usage parameters that limit the potential damage caused from the unauthorized or unintentional alteration of system parameters.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Bring Your Own Device (BYOD) Usage	AST-16	Mechanisms exist to implement and govern a Bring Your Own Device (BYOD) program to reduce risk associated with personally-owned devices in the workplace.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	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	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	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	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Use of Communications Technology	HRS-05.3	Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Use of Mobile Devices	HRS-05.5	Mechanisms exist to manage business risks associated with permitting mobile device access to organizational resources.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Access Agreements	HRS-06	Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	10	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Access Control For Mobile Devices	MDM-02	Mechanisms exist to enforce access control requirements for the connection of mobile devices to organizational systems.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Personally-Owned Mobile Devices	MDM-06	Mechanisms exist to restrict the connection of personally-owned, mobile devices to organizational systems and networks.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Organization-Owned Mobile Devices	MDM-07	Mechanisms exist to prohibit the installation of non-approved applications or approved applications not obtained through the	5	
03.01.18.A	Access Control for	Establish usage restrictions, configuration requirements, and connection	Functional	intersects with	Network Security	NET-01	organization-approved application store. Mechanisms exist to develop, govern & update procedures to facilitate	5	
03.01.18.A	Mobile Devices Access Control for Mobile Devices	requirements for mobile devices. Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Controls (NSC) Secure Engineering Principles	SEA-01	the implementation of Network Security Controls (NSC). Mechanisms exist to facilitate the implementation of industry-recognized oybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services.	5	
03.01.18.A	Access Control for Mobile Devices	Establish usage restrictions, configuration requirements, and connection requirements for mobile devices.	Functional	intersects with	Alignment With	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	5	
03.01.18.B	Access Control for Mobile Devices	Authorize the connection of mobile devices to the system.	Functional	subset of	Identity & Access Management (IAM)	IAC-01	organizational operations, assets, individuals, other organizations. Mechanisms exist to facilitate the implementation of identification and	10	
03.01.18.B	Access Control for Mobile Devices	Authorize the connection of mobile devices to the system.	Functional	intersects with	Identification & Authentication for Devices	IAC-04	access management controls. 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	5	
03.01.18.B	Access Control for	Authorize the connection of mobile devices to the system.	Functional	intersects with	Access Control For	MDM-02	resistant. Mechanisms exist to enforce access control requirements for the	5	
03.01.18.B	Mobile Devices Access Control for	Authorize the connection of mobile devices to the system.	Functional	intersects with	Mobile Devices Personally-Owned	MDM-06	connection of mobile devices to organizational systems. Mechanisms exist to restrict the connection of personally-owned, mobile	5	
03.01.18.B	Access Control for Mobile Devices	Authorize the connection of mobile devices to the system.	Functional	intersects with	Mobile Devices Organization-Owned Mobile Devices	MDM-07	devices to organizational systems and networks. Mechanisms exist to prohibit the installation of non-approved applications or approved applications or obtained through the	5	
03.01.18.B	Access Control for Mobile Devices	Authorize the connection of mobile devices to the system.	Functional	intersects with	Restricting Access To Authorized Devices	MDM-11	organization-approved application store. Mechanisms exist to restrict the connectivity of unauthorized mobile devices from communicating with systems, applications and services.	5	
03.01.18.C	Access Control for Mobile Devices	Implement full-device or container-based encryption to protect the confidentiality of CI on mobile devices.	Functional	intersects with	Full Device & Container- Based Encryption	MDM-03	Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container	5	
03.01.19	Not Allocated Use of External Systems	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A N/A	encryption. N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.01.20				1					
03.01.20 03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	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)
							Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless authorized individuals	(орионая)	
03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	intersects with	Limits of Authorized Use	DCH-13.1	first: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	5	
03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	intersects with	Portable Storage Devices	DCH-13.2	Mechanisms exist to restrict or prohibit the use of portable storage devices by users on external systems.	5	
03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	intersects with	Non-Organizationally Owned Systems / Components / Devices	DCH-13.4	Mechanisms exist to restrict the use of non-organizationally owned information systems, system components or devices to process, store or transmit organizational information.	5	
03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	intersects with	Ad-Hoc Transfers	DCH-17	Mechanisms exist to secure ad-hoc exchanges of large digital files with internal or external parties.	5	
03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
03.01.20.A	Use of External Systems	Prohibit the use of external systems unless the systems are specifically authorized.	Functional	intersects with	Third-Party Attestation	TPM-05.8	Mechanisms exist to obtain an attestation from an independent Third- Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for Cybersecurity & data privacy controls, including any flow- down requirements to contractors and subcontractors.	8	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, systems and services are used to securely store, process and transmit data.	5	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Limits of Authorized Use	DCH-13.1	Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless authorized individuals first: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	5	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Protecting Sensitive Data on External Systems	DCH-13.3	Mechanisms exist to ensure that the requirements for the protection of sensitive information processed, stored or transmitted on external systems, are implemented in accordance with applicable statutory, regulatory and contractual obligations.	5	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Transfer Authorizations	DCH-14	Mechanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring said data.	5	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Transfer Authorizations	DCH-14.2	Mechanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring said data.	5	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	subset of	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.	10	
03.01.20.B	Use of External Systems	Establish the following security requirements to be satisfied on external systems prior to allowing use of or access to those systems by authorized individuals: [Assignment: organization-defined security requirements].	Functional	intersects with	Third-Party Attestation	TPM-05.8	Mechanisms exist to obtain an attestation from an independent Third- Party Assessment Organization (3-PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for cybersecurity & data privacy controls, including any flow- down requirements to contractors and subcontractors.	8	
03.01.20.C	Use of External Systems	Permit authorized individuals to use external systems to access the organizational system or to process, store, or transmit CI only after:	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, systems and services are used to securely store, process and transmit data.	5	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	Limits of Authorized Use	DCH-13.1	Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless authorized individuals first: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	5	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	on External Systems	DCH-13.3	Mechanisms exist to ensure that the requirements for the protection of sensitive information processed, stored or transmitted on external systems, are implemented in accordance with applicable statutory, regulatory and contractual obligations.	5	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	Non-Organizationally Owned Systems / Components / Devices	DCH-13.4	Mechanisms exist to restrict the use of non-organizationally owned information systems, system components or devices to process, store or transmit organizational information.	5	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	subset of	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	10	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	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. Mechanisms exist to obtain a First-Party Declaration (1PD) from	8	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	First-Party Declaration (1PD)	TPM-05.6	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.	8	
03.01.20.C.01	Use of External Systems	Verifying that the security requirements on the external systems as specified in the organization's system security plans have been satisfied and	Functional	intersects with	Third-Party Attestation	TPM-05.8	Mechanisms exist to obtain an attestation from a Third-Party Assessment Organization (2RAO) that provides assurance of compliance with specified statutory, regulatory and contractual obligations for cybersecurity & data privacy controls, including any flow-down requirements to subcontractors.	8	
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	intersects with	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, systems and services are used to securely store, process and transmit data.	5	
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	intersects with	Limits of Authorized Use	DCH-13.1	Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless authorized individuals first: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	5	
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	intersects with	Transfer Authorizations	DCH-14.2	Mechanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring said data.	5	
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	intersects with	Data Access Mapping	DCH-14.3	Mechanisms exist to leverages a data-specific Access Control List (ACL) or Interconnection Security Agreements (ISAs) to generate a logical map of the parties with whom sensitive/regulated data is shared.	5	
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	intersects with	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.	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)
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	intersects with	System Interconnections	NET-05	Mechanisms exist to authorize connections from systems to other systems using Interconnection Security Agreements (ISAs), or similar methods, that document, for each interconnection, the interface characteristics, cybersecurity & data privacy requirements and the nature of the information communicated.	8	
03.01.20.C.02	Use of External Systems	Retaining approved system connection or processing agreements with the organizational entities hosting the external systems.	Functional	subset of	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.	10	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	intersects with	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, systems and services are used to securely store, process and transmit data.	5	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	intersects with	Limits of Authorized Use	DCH-13.1	Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless authorized individuals first: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	5	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	intersects with	Portable Storage Devices	DCH-13.2	Mechanisms exist to restrict or prohibit the use of portable storage devices by users on external systems.	5	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	intersects with	Non-Organizationally Owned Systems / Components / Devices	DCH-13.4	Mechanisms exist to restrict the use of non-organizationally owned information systems, system components or devices to process, store or transmit organizational information.	5	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	subset of	Centralized Management Of Mobile Devices	MDM-01	Mechanisms exist to implement and govern Mobile Device Management (MDM) controls.	10	
03.01.20.D	Use of External Systems	Restrict the use of organization-controlled portable storage devices by authorized individuals on external systems.	Functional	intersects with	Organization-Owned Mobile Devices	MDM-07	Mechanisms exist to prohibit the installation of non-approved applications or approved applications not obtained through the organization-approved application store.	8	
03.01.21	Not Allocated Publicly Accessible	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.01.22	Content Publicly Accessible	N/A Train authorized individuals to ensure that publicly accessible information	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to restrict the disclosure of sensitive / regulated data	N/A	No requirements to map to.
03.01.22.A	Content	does not contain CI.	Functional	intersects with	Disclosure of Information	DCH-03.1	to authorized parties with a need to know.	5	
03.01.22.A	Publicly Accessible Content	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	5	
03.01.22.A	Publicly Accessible Content	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	5	
03.01.22.A	Publicly Accessible	Train authorized individuals to ensure that publicly accessible information	Functional	intersects with	User Awareness	HRS-03.1	Mechanisms exist to communicate with users about their roles and	5	
	Content	does not contain Cl.	· =tionat			00.1	responsibilities to maintain a safe and secure working environment. Mechanisms exist to ensure that individuals accessing a system that		
03.01.22.A	Publicly Accessible Content Publicly Accessible	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Roles With Special Protection Measures	HRS-04.1	stores, transmits or processes information requiring special protection satisfy organization-defined personnel screening criteria. Mechanisms exist to formally educate authorized users on proper data	5	
03.01.22.A	Content	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Formal Indoctrination	HRS-04.2	handling practices for all the relevant types of data to which they have access.	5	
03.01.22.A	Publicly Accessible	Train authorized individuals to ensure that publicly accessible information	Functional	intersects with	Terms of Employment	HRS-05	Mechanisms exist to require all employees and contractors to apply	5	
	Content Publicly Accessible	does not contain CI. Train authorized individuals to ensure that publicly accessible information					cybersecurity & data privacy principles in their daily work. Mechanisms exist to define acceptable and unacceptable rules of		
03.01.22.A	Content Publicly Accessible	does not contain CI. Train authorized individuals to ensure that publicly accessible information	Functional	intersects with	Rules of Behavior Cybersecurity & Data	HRS-05.1	behavior for the use of technologies, including consequences for unacceptable behavior. Mechanisms exist to provide all employees and contractors appropriate	5	
03.01.22.A	Content	does not contain CI.	Functional	intersects with	Privacy Awareness Training	SAT-02	awareness education and training that is relevant for their job function. Mechanisms exist to provide role-based cybersecurity & data privacy-	5	
03.01.22.A	Publicly Accessible Content	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annuality thereafter.	5	
03.01.22.A	Publicly Accessible Content	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Sensitive / Regulated Data Storage, Handling & Processing	SAT-03.3	Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive / regulated data is formally trained in data handling requirements.	5	
03.01.22.A	Publicly Accessible Content	Train authorized individuals to ensure that publicly accessible information does not contain CI.	Functional	intersects with	Web Security	WEB-01	Mechanisms exist to facilitate the implementation of an enterprise-wide web management policy, as well as associated standards, controls and procedures.		
03.01.22.B	Publicly Accessible Content	Review the content on publicly accessible systems for CI and remove such information, if discovered.	Functional	intersects with	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	5	
03.01.22.B	Publicly Accessible Content	Review the content on publicly accessible systems for CI and remove such information, if discovered.	Functional	intersects with	Monitoring For Information Disclosure	MON-11	Mechanisms exist to monitor for evidence of unauthorized exfiltration or disclosure of non-public information.	5	
03.01.22.B	Publicly Accessible Content	Review the content on publicly accessible systems for CI and remove such information, if discovered.	Functional	intersects with	Publicly Accessible Content Reviews	WEB-14	Mechanisms exist to routinely review the content on publicly accessible systems for sensitive/regulated data and remove such information, if discovered.	5	
03.02.01	Literacy Training and	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.02.01.A	Awareness Literacy Training and Awareness	Provide security literacy training to system users:	Functional	subset of	Cybersecurity & Data Privacy-Minded	SAT-01	Mechanisms exist to facilitate the implementation of security workforce development and awareness controls.	10	
02.02.04.4.7.7	Literacy Training and	As part of initial training for new users and [Assignment: organization-defined	For extra 1	intersects with	Workforce Cybersecurity & Data	047.55	Mechanisms exist to provide all employees and contractors appropriate	_	
03.02.01.A.01	Awareness	frequency] thereafter,	Functional	intersects with	Privacy Awareness Training	SAT-02	awareness education and training that is relevant for their job function. Mechanisms exist to provide role-based cybersecurity & data privacy- related training:	5	
03.02.01.A.01	Literacy Training and Awareness	As part of initial training for new users and [Assignment: organization-defined frequency] thereafter,	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	(1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually thereafter.	5	
03.02.01.A.01	Literacy Training and Awareness	As part of initial training for new users and [Assignment: organization-defined frequency] thereafter,	Functional	intersects with	Sensitive / Regulated Data Storage, Handling & Processing	SAT-03.3	Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive / regulated data is formally trained in data handling requirements.	5	
03.02.01.A.01	Literacy Training and Awareness	As part of initial training for new users and [Assignment: organization-defined frequency] thereafter,	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	
03.02.01.A.01	Literacy Training and Awareness	As part of initial training for new users and [Assignment: organization-defined frequency] thereafter,	Functional	intersects with	Cyber Threat Environment	SAT-03.6	Mechanisms exist to provide role-based cybersecurity & data privacy awareness training that is current and relevant to the cyber threats that the user might encounter the user's specific day-to-day business operations	5	
03.02.01.A.02	Literacy Training and Awareness	When required by system changes or following [Assignment: organization-defined events], and	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. Mechanisms exist to provide role based subpreserving & data privacy.	5	
03.02.01.A.02	Literacy Training and Awareness	When required by system changes or following [Assignment: organization-defined events], and	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	
03.02.01.A.02	Literacy Training and Awareness	When required by system changes or following [Assignment: organization-defined events], and	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 the user might encounter the user's specific day-to-day business operations	5	
03.02.01.A.02	Literacy Training and Awareness	When required by system changes or following [Assignment: organization-defined events], and	Functional	intersects with	External Threat Intelligence Feeds Feeds Cybersecurity & Data	THR-03	Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tectics, techniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
03.02.01.A.03	Literacy Training and Awareness	On recognizing and reporting indicators of insider threat, social engineering, and social mining.	Functional	intersects with	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. Mechanisms exist to include awareness training on recognizing and	5	
03.02.01.A.03	Literacy Training and Awareness	On recognizing and reporting indicators of insider threat, social engineering, and social mining.	Functional	intersects with	Social Engineering & Mining	SAT-02.2	reporting potential and actual instances of social engineering and social mining.	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)
03.02.01.A.03	Literacy Training and Awareness	On recognizing and reporting indicators of insider threat, social engineering, and social mining.	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 the user might encounter the user's specific day-to-day business operations	5	
03.02.01.A.03	Literacy Training and Awareness	On recognizing and reporting indicators of insider threat, social engineering, and social mining.	Functional	intersects with	External 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	
03.02.01.A.03	Literacy Training and Awareness	On recognizing and reporting indicators of insider threat, social engineering, and social mining.	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	
03.02.01.B	Literacy Training and Awareness	Update security literacy training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	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	
03.02.01.B	Literacy Training and Awareness	Update security literacy training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	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 the user might encounter the user's specific day-to-day business operations	5	
03.02.01.B	Literacy Training and Awareness	Update security literacy training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	Functional	intersects with	External 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	5	
03.02.02	Role-Based Training	N/A	Functional	no relationship	N/A	N/A	preventative and compensating controls. N/A	N/A	No requirements to map to.
03.02.02.A	Role-Based Training	Provide role-based security training to organizational personnel:	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) Annuality thereafter.	5	
03.02.02.A.01	Role-Based Training	Before authorizing access to the system or CI, before performing assigned duties, and [Assignment: organization-defined frequency] thereafter	Functional	intersects with	Roles With Special Protection Measures	HRS-04.1	Mechanisms exist to ensure that individuals accessing a system that stores, transmits or processes information requiring special protection satisfy organization-defined personnel screening criteria.	5	
03.02.02.A.01	Role-Based Training	Before authorizing access to the system or CI, before performing assigned duties, and [Assignment: organization-defined frequency] thereafter	Functional	intersects with	Formal Indoctrination	HRS-04.2	Mechanisms exist to formally educate authorized users on proper data handling practices for all the relevant types of data to which they have access.	5	
03.02.02.A.01	Role-Based Training	Before authorizing access to the system or CI, before performing assigned duties, and [Assignment: organization-defined frequency] thereafter	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	
03.02.02.A.01	Role-Based Training	Before authorizing access to the system or CI, before performing assigned duties, and [Assignment: organization-defined frequency] thereafter	Functional	intersects with	Sensitive / Regulated Data Storage, Handling & Processing	SAT-03.3	Mechanisms exist to ensure that every user accessing a system processing, storing or transmitting sensitive / regulated data is formally trained in data handling requirements.	5	
03.02.02.A.01	Role-Based Training	Before authorizing access to the system or CI, before performing assigned duties, and [Assignment: organization-defined frequency] thereafter	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 Mechanisms exist to provide role-based cybersecurity & data privacy	5	
03.02.02.A.01	Role-Based Training	Before authorizing access to the system or CI, before performing assigned duties, and [Assignment: organization-defined frequency] thereafter	Functional	intersects with	Cyber Threat Environment	SAT-03.6	awareness training that is current and relevant to the cyber threats that the user might encounter the user's specific day-to-day business operations Mechanisms exist to provide role-based cybersecurity & data privacy-	5	
03.02.02.A.02	Role-Based Training	When required by system changes or following [Assignment: organization-defined events].	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	reduction is easied by novel relevance to provide relevance of the related training. (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually thereafter.	5	
03.02.02.A.02	Role-Based Training	When required by system changes or following [Assignment: organization-defined events].	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 the user might encounter the user's specific day-to-day business operations	5	
03.02.02.B	Role-Based Training	Update role-based training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	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	
03.02.02.B	Role-Based Training	Update role-based training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	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 the user might encounter the user's specific day-to-day business operations	5	
03.02.02.B	Role-Based Training	Update role-based training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	Functional	intersects with	External 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	
03.02.03 03.03.01	Not Allocated Event Logging	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.03.01.A	Event Logging Event Logging	Specify the following event types selected for logging within the system: [Assignment: organization-defined event types].	Functional	subset of	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	10	
03.03.01.A	Event Logging	Specify the following event types selected for logging within the system: [Assignment: organization-defined event types].	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	5	
03.03.01.A	Event Logging	Specify the following event types selected for logging within the system: [Assignment: organization-defined event types].	Functional	intersects with	System-Wide / Time- Correlated Audit Trail	MON-02.7	achieve integrated situational awareness. Automated mechanisms exist to compile audit records into an organization-wide audit trail that is time-correlated.	5	
03.03.01.A	Event Logging	Specify the following event types selected for logging within the system: [Assignment: organization-defined event types].	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	
03.03.01.A	Event Logging	Specify the following event types selected for logging within the system: [Assignment: organization-defined event types].	Functional	intersects with	Audit Trails	MON-03.2	Mechanisms exist to link system access to individual users or service accounts.	5	
03.03.01.B	Event Logging	Review and update the event types selected for logging [Assignment: organization-defined frequency].	Functional	subset of	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.	10	
03.03.01.B	Event Logging	Review and update the event types selected for logging [Assignment: organization-defined frequency].	Functional	intersects with	Central Review & Analysis	MON-02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	5	
03.03.02 03.03.02.A	Audit Record Content Audit Record Content	N/A Include the following content in audit records:	Functional	no relationship	N/A Content of Event Logs	N/A MON-03	NAM 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.	N/A 5	No requirements to map to.
03.03.02.A.01	Audit Record Content	What type of event occurred	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) When 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	



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)
03.03.02.A.02	Audit Record Content	When the event occurred	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;	(optional)	
00.00.00.4.00	1.52		For extra of		T 0	MON 07	(5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to configure systems to use an authoritative time	_	
03.03.02.A.02 03.03.02.A.03	Audit Record Content Audit Record Content	When the event occurred Where the event occurred	Functional	intersects with	Time Stamps Content of Event Logs	MON-07	source to generate time stamps for event logs. Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (3) When (date and time) the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The doutcom of any user/subject associated with the event.	5	
03.03.02.A.04	Audit Record Content	Source of the event	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. Mechanisms exist to configure systems to produce event logs that	5	
03.03.02.A.05	Audit Record Content	Outcome of the event	Functional	intersects with	Content of Event Logs	MON-03	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	
03.03.02.A.06	Audit Record Content	Identity of the individuals, subjects, objects, or entities associated with the event	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. Mechanisms exist to allow baseline controls to be spicalized or outsomized by applying a defined set of tailoring actions that are specific	5	
03.03.02.B	Audit Record Content	Provide additional information for audit records as needed.	Functional	intersects with	Baseline Tailoring	CFG-02.9	to: (I) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business success.	5	
03.03.02.B	Audit Record Content	Provide additional information for audit records as needed.	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	
03.03.03	Audit Record Generation	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.03.03.A	Audit Record Generation	Generate audit records for the selected event types and audit record content specified in 03.03.01 and 03.03.02.	Functional	subset of	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.	10	
03.03.03.B	Audit Record Generation	Retain audit records for a time period consistent with the records retention policy.	Functional	intersects with	Protection of Event Logs	MON-08	Mechanisms exist to protect event logs and audit tools from unauthorized access, modification and deletion.	5	
03.03.03.B	Audit Record Generation	Retain audit records for a time period consistent with the records retention policy.	Functional	subset of	Event Log Retention	MON-10	Mechanisms exist to retain event logs for a time period consistent with records retention requirements to provide support for after-the-fact investigations of security incidents and to meet statutory, regulatory and contractual retention requirements.	10	
03.03.04	Response to Audit Logging Process Failures	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.03.04.A	Response to Audit Logging Process Failures	Alert organizational personnel or roles within [Assignment: organization-defined time period] in the event of an audit logging process failure.	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	
03.03.04.B	Response to Audit Logging Process Failures	Take the following additional actions: [Assignment: organization-defined additional actions].	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	
03.03.04.B	Response to Audit Logging Process Failures	Take the following additional actions: [Assignment: organization-defined additional actions].	Functional	intersects with	Response To Event Log Processing Failures	MON-05	Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the disruption.	5	
03.03.05	Audit Record Review, Analysis, and Reporting	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.03.05.A	Audit Record Review, Analysis, and Reporting	Review and analyze system audit records [Assignment: organization-defined frequency] for indications and the potential impact of inappropriate or unusual activity.	Functional	subset of	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.	10	
03.03.05.A	Audit Record Review, Analysis, and Reporting	unusual activity. Review and analyze system audit records [Assignment: organization-defined frequency] for indications and the potential impact of inappropriate or unusual activity.	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.	3	
03.03.05.A	Audit Record Review, Analysis, and Reporting	Review and analyze system audit records [Assignment: organization-defined frequency] for indications and the potential impact of inappropriate or unusual activity.	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	
03.03.05.A	Audit Record Review, Analysis, and Reporting	Review and analyze system audit records [Assignment: organization-defined frequency] for indications and the potential impact of inappropriate or unusual activity.	Functional	intersects with	Central Review & Analysis	MON-02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	3	
03.03.05.A	Audit Record Review, Analysis, and Reporting	unusual activity. Review and analyze system audit records [Assignment: organization-defined frequency] for indications and the potential impact of inappropriate or unusual activity.	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.	8	
03.03.05.B	Audit Record Review, Analysis, and Reporting	Report findings to organizational personnel or roles.	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.	8	
03.03.05.B	Audit Record Review, Analysis, and Reporting	Report findings to organizational personnel or roles.	Functional	intersects with	Monitoring Reporting	MON-06	Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous activities.	8	
03.03.05.C	Audit Record Review, Analysis, and Reporting	Analyze and correlate audit records across different repositories to gain organization-wide situational awareness.	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	
03.03.05.C	Audit Record Review, Analysis, and Reporting	Analyze and correlate audit records across different repositories to gain organization-wide situational awareness.	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.	8	
03.03.05.C		Analyze and correlate audit records across different repositories to gain organization-wide situational awareness.	Functional	intersects with	Central Review & Analysis	MON-02.2	Automated mechanisms exist to centrally collect, review and analyze audit records from multiple sources.	5	
03.03.05.C	Audit Record Review, Analysis, and Reporting	Analyze and correlate audit records across different repositories to gain organization-wide situational awareness.	Functional	intersects with	Integration of Scanning & Other Monitoring Information	MON-02.3	Automated mechanisms exist to integrate the analysis of audit records with analysis of vulnerability scanners, network performance, system monitoring and other sources to further enhance the ability to identify inappropriate or unusual activity.	5	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
03.03.06	Audit Record Reduction	N/A	Functional	no relationship	N/A	N/A	N/A	(optional) N/A	No requirements to map to.
	and Report Generation Audit Record Reduction	Implement an audit record reduction and report generation capability that					Mechanisms exist to provide an event log report generation capability to		
03.03.06.A	and Report Generation	supports audit record review, analysis, reporting requirements, and after-the- fact investigations of incidents.	Functional	intersects with	Monitoring Reporting	MON-06	aid in detecting and assessing anomalous activities.	5	
03.03.06.B	Audit Record Reduction and Report Generation	Preserve the original content and time ordering of audit records.	Functional	equal	Protection of Event Logs	MON-08	Mechanisms exist to protect event logs and audit tools from unauthorized access, modification and deletion.	10	
03.03.07 03.03.07.A	Time Stamps Time Stamps	N/A Use internal system clocks to generate time stamps for audit records.	Functional Functional	no relationship	N/A Time Stamps	N/A MON-07	N/A Mechanisms exist to configure systems to use an authoritative time	N/A 10	No requirements to map to.
03.03.07.A	Time Stamps	Record time stamps for audit records that meet [Assignment: organization-	Tunctionat	Subset of	Synchronization With	1-1014-07	source to generate time stamps for event logs.	10	
03.03.07.B	Time Stamps	defined granularity of time measurement] and that use Coordinated Universal Time (UTC), have a fixed local time offset from UTC, or include the local time offset as part of the time stamp.	Functional	subset of	Authoritative Time Source	MON-07.1	Mechanisms exist to synchronize internal system clocks with an authoritative time source.	10	
03.03.08	Protection of Audit Information	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.03.08.A	Protection of Audit Information	Protect audit information and audit logging tools from unauthorized access, modification, and deletion.	Functional	intersects with	Protection of Event Logs	MON-08	Mechanisms exist to protect event logs and audit tools from unauthorized access, modification and deletion.	5	
03.03.08.A	Protection of Audit Information	Protect audit information and audit logging tools from unauthorized access, modification, and deletion.	Functional	intersects with	Event Log Backup on Separate Physical Systems / Components	MON-08.1	Mechanisms exist to back up event logs onto a physically different system or system component than the Security Incident Event Manager (SIEM) or similar automated tool.	5	
03.03.08.A	Protection of Audit Information	Protect audit information and audit logging tools from unauthorized access, modification, and deletion.	Functional	intersects with	Access by Subset of Privileged Users	MON-08.2	Mechanisms exist to restrict access to the management of event logs to privileged users with a specific business need.	5	
03.03.08.A	Protection of Audit Information	Protect audit information and audit logging tools from unauthorized access, modification, and deletion.	Functional	intersects with	Cryptographic Protection of Event Log Information	MON-08.3	Cryptographic mechanisms exist to protect the integrity of event logs and audit tools.	5	
03.03.08.A	Protection of Audit Information	Protect audit information and audit logging tools from unauthorized access, modification, and deletion.	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	
03.03.08.B	Protection of Audit	Authorize access to management of audit logging functionality to only a	Functional	equal	Access by Subset of	MON-08.2	Mechanisms exist to restrict access to the management of event logs to	10	
00.00.00.0	Information Protection of Audit	subset of privileged users or roles.	Tunotionat	oquut	Privileged Users	11011 00:2	privileged users with a specific business need. Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy		
03.03.08.B	Information	Authorize access to management of audit logging functionality to only a subset of privileged users or roles.	Functional	subset of	Role-Based Access Control (RBAC)	IAC-08	over users and resources that applies need-to-know and fine-grained access control for sensitive/regulated data access.	10	
03.03.08.B	Protection of Audit Information	Authorize access to management of audit logging functionality to only a subset of privileged users or roles.	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.	8	
03.03.09	Not Allocated	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.04.01 03.04.01.A	Baseline Configuration Baseline Configuration	N/A Develop and maintain under configuration control, a current baseline	Functional Functional	no relationship	N/A Configuration	N/A CFG-01	N/A Mechanisms exist to facilitate the implementation of configuration	N/A 10	No requirements to map to.
00.04.0131	Baseline Comigaration	configuration of the system.	Tunotionat	Subset of	Management Program System Hardening	0.00.	management controls. Mechanisms exist to develop, document and maintain secure baseline		
03.04.01.A	Baseline Configuration	Develop and maintain under configuration control, a current baseline configuration of the system.	Functional	intersects with	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry- accepted system hardening standards.	5	
03.04.01.A	Baseline Configuration	Develop and maintain under configuration control, a current baseline configuration of the system.	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	
03.04.01.A	Baseline Configuration	Develop and maintain under configuration control, a current baseline	Functional	intersects with	Approved Configuration	CFG-02.7	Mechanisms exist to document, assess risk and approve or deny	5	
00.04.0131	Baseline Comigaration	configuration of the system.	Tunotionat	III.CI SOCIO WILI	Deviations	0.000	deviations to standardized configurations. Mechanisms exist to allow baseline controls to be specialized or		
							customized by applying a defined set of tailoring actions that are specific to:		
03.04.01.A	Baseline Configuration	Develop and maintain under configuration control, a current baseline configuration of the system.	Functional	intersects with	Baseline Tailoring	CFG-02.9	(1) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business	5	
		Review and update the baseline configuration of the system [Assignment:					success. Mechanisms exist to review and update baseline configurations:		
03.04.01.B	Baseline Configuration	organization-defined frequency] and when system components are installed or modified.	Functional	intersects with	Reviews & Updates	CFG-02.1	(1) At least annually; (2) When required due to so; or	5	
03.04.02	Configuration Settings	N/A	Functional	no relationship	N/A	N/A	(3) As part of system component installations and upgrades. N/A	N/A	No requirements to map to.
03.04.02.A	Configuration Settings	Establish, document, and implement the following configuration settings for the system that reflect the most restrictive mode consistent with operational requirements: [Assignment: organization-defined configuration settings].	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	
03.04.02.A	Configuration Settings	Establish, document, and implement the following configuration settings for the system that reflect the most restrictive mode consistent with operational requirements: [Assignment: organization-defined configuration settings].	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	
		requirements. [Assignment: Organization-defined configuration settings].			TOT FIRST-NAK ALGOS		Mechanisms exist to allow baseline controls to be specialized or		
							customized by applying a defined set of tailoring actions that are specific to:		
03.04.02.A	Configuration Settings	Establish, document, and implement the following configuration settings for the system that reflect the most restrictive mode consistent with operational	Functional	intersects with	Baseline Tailoring	CFG-02.9	(1) Mission / business functions; (2) Operational environment;	5	
		requirements: [Assignment: organization-defined configuration settings].					(3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business success.		
		Establish, document, and implement the following configuration settings for					Mechanisms exist to configure systems to provide only essential		
03.04.02.A	Configuration Settings	the system that reflect the most restrictive mode consistent with operational requirements: [Assignment: organization-defined configuration settings].	Functional	intersects with	Least Functionality	CFG-03	capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
03.04.02.A	Configuration Settings	Establish, document, and implement the following configuration settings for the system that reflect the most restrictive mode consistent with operational requirements: [Assignment: organization-defined configuration settings].	Functional	intersects with	Configuration Enforcement	CFG-06	Automated mechanisms exist to monitor, enforce and report on configurations for endpoint devices.	5	
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	Functional	intersects with	Approved Baseline Deviations	AST-02.4	Mechanisms exist to document and govern instances of approved deviations from established baseline configurations.	5	
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	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	5	
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	Functional	intersects with	Automated Central Management &	CFG-02.2	(3) As part of system component installations and upgrades. Automated mechanisms exist to govern and report on baseline configurations of systems through Continuous Diagnostics and	3	
		configuration settings. Identify, document, and approve any deviations from established			Verification Approved Configuration		Mitigation (CDM), or similar technologies. Mechanisms exist to document, assess risk and approve or deny		
03.04.02.B	Configuration Settings	configuration settings.	Functional	intersects with	Deviations	CFG-02.7	deviations to standardized configurations. Mechanisms exist to allow baseline controls to be specialized or	5	
							customized by applying a defined set of tailoring actions that are specific to:		
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	Functional	intersects with	Baseline Tailoring	CFG-02.9	(1) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business	5	
		Identify, document, and approve any deviations from established	_		Configuration	_	success. Automated mechanisms exist to monitor, enforce and report on		
03.04.02.B	Configuration Settings	Configuration settings. Identify, document, and approve any deviations from established	Functional	intersects with	Enforcement Change Management	CFG-06	Configurations for endpoint devices. Mechanisms exist to facilitate the implementation of a change	3	
03.04.02.B	Configuration Settings	configuration settings.	Functional	subset of	Program	CHG-01	management program.	10	
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	Functional	intersects with	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	Functional	intersects with	Prohibition Of Changes	CHG-02.1	Mechanisms exist to prohibit unauthorized changes, unless organization- approved change requests are received.	5	
03.04.02.B	Configuration Settings	Identify, document, and approve any deviations from established configuration settings.	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	
	Configuration Change			no relationship	N/A	N/A	N/A	N/A	No requirements to map to.



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
03.04.03.4	Configuration Change	Define the types of changes to the system that are specific varieties and		· ·	Configuration	CFG-06	Automated mechanisms exist to monitor, enforce and report on	(optional)	
03.04.03.A	Control Configuration Change	Define the types of changes to the system that are configuration-controlled.	Functional	intersects with	Enforcement Change Management		configurations for endpoint devices. Mechanisms exist to facilitate the implementation of a change		+
03.04.03.A	Control	Define the types of changes to the system that are configuration-controlled.	Functional	subset of	Program	CHG-01	management program.	10	
03.04.03.A	Configuration Change Control	Define the types of changes to the system that are configuration-controlled.	Functional	intersects with	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
03.04.03.A	Configuration Change Control	Define the types of changes to the system that are configuration-controlled.	Functional	intersects with	Prohibition Of Changes	CHG-02.1	Mechanisms exist to prohibit unauthorized changes, unless organization- approved change requests are received.	5	
03.04.03.B	Configuration Change Control	Review proposed configuration-controlled changes to the system, and approve or disapprove such changes with explicit consideration for security	Functional	intersects with	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
03.04.03.B	Configuration Change	impacts. Review proposed configuration-controlled changes to the system, and approve or disapprove such changes with explicit consideration for security	Functional	intersects with	Test, Validate &	CHG-02.2	Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented in a	5	-
03.04.03.B	Configuration Change Control	impacts. Review proposed configuration-controlled changes to the system, and approve or disapprove such changes with explicit consideration for security	Functional	intersects with	Security Impact Analysis for Changes	CHG-03	production environment. Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.	5	
03.04.03.C	Configuration Change Control	impacts. Implement and document approved configuration-controlled changes to the system.	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	5	
03.04.03.C	Configuration Change Control	Implement and document approved configuration-controlled changes to the system.	Functional	intersects with	Configuration Change Control	CHG-02	production environment. Mechanisms exist to govern the technical configuration change control processes.	5	
03.04.03.C	Configuration Change Control	Implement and document approved configuration-controlled changes to the system.	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.	3	
03.04.03.C	Configuration Change	Implement and document approved configuration-controlled changes to the	Functional	intersects with	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities	3	
03.04.03.D	Control Configuration Change	system. Monitor and review activities associated with configuration-controlled	Functional	subset of	Automated Central Management &	CFG-02.2	throughout the lifecycle of the system, application or service. Automated mechanisms exist to govern and report on baseline configurations of systems through Continuous Diagnostics and	10	-
	Control	changes to the system.			Verification		Mitigation (CDM), or similar technologies.		
03.04.04 03.04.04.A	Impact Analyses Impact Analyses	N/A Analyze changes to the system to determine potential security impacts prior to change implementation.	Functional Functional	no relationship	N/A Test, Validate & Document Changes	N/A CHG-02.2	N/A Mechanisms exist to appropriately test and document proposed changes in a non-production environment before changes are implemented in a	N/A 3	No requirements to map to
03.04.04.A	Impact Analyses	Analyze changes to the system to determine potential security impacts prior to change implementation.	Functional	intersects with	Cybersecurity & Data Privacy Representative for Asset Lifecycle	CHG-02.3	production environment. Mechanisms exist to include a cybersecurity and/or data privacy representative in the configuration change control review process.	8	
03.04.04.A	Impact Analyses	Analyze changes to the system to determine potential security impacts prior to change implementation.	Functional	intersects with	Changes Security Impact Analysis for Changes	CHG-03	Mechanisms exist to analyze proposed changes for potential security impacts, prior to the implementation of the change.	8	
03.04.04.B	Impact Analyses	Verify that the security requirements for the system continue to be satisfied after the system changes have been implemented.	Functional	subset of	Control Functionality Verification	CHG-06	Mechanisms exist to verify the functionality of cybersecurity and/or data privacy controls following implemented changes to ensure applicable	10	
02.04.05	Access Restrictions for		Constinuel	:	Access Restriction For	CHG-04	controls operate as designed. Mechanisms exist to enforce configuration restrictions in an effort to	5	+
03.04.05	Change Access Restrictions for	restrictions associated with changes to the system. Define, document, approve, and enforce physical and logical access	Functional Functional	intersects with	Change Permissions To	CHG-04	restrict the ability of users to conduct unauthorized changes. Mechanisms exist to limit operational privileges for implementing	5	_
03.04.05	Change Access Restrictions for	restrictions associated with changes to the system. Define, document, approve, and enforce physical and logical access	Functional	intersects with	Role-Based Access	IAC-08	changes. Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to-know and fine-grained	5	
	Change Access Restrictions for	restrictions associated with changes to the system. Define, document, approve, and enforce physical and logical access			Control (RBAC)		access control for sensitive/regulated data access. Mechanisms exist to utilize the concept of least privilege, allowing only		
03.04.06	Change	restrictions associated with changes to the system.	Functional Functional	no relationship	Least Privilege	IAC-21	authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions. N/A	5 N/A	
	Least Functionality			no retationship	System Hardening		Mechanisms exist to develop, document and maintain secure baseline		No requirements to map to
03.04.06.A	Least Functionality	Configure the system to provide only mission-essential capabilities.	Functional	intersects with	Through Baseline Configurations Approved Baseline	CFG-02	configurations for technology platforms that are consistent with industry- accepted system hardening standards. Mechanisms exist to document and govern instances of approved	8	
03.04.06.A	Least Functionality	Configure the system to provide only mission-essential capabilities.	Functional	intersects with	Deviations Configure Systems,	AST-02.4	deviations from established baseline configurations.	3	
03.04.06.A	Least Functionality	Configure the system to provide only mission-essential capabilities.	Functional	intersects with	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.	8	
03.04.06.A	Least Functionality	Configure the system to provide only mission-essential capabilities.	Functional	intersects with	Baseline Tailoring	CFG-02.9	Mechanisms exist to allow baseline controls to be specialized or customized by applying a defined set of tailoring actions that are specific to: (1) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business success.	3	
03.04.06.A	Least Functionality	Configure the system to provide only mission-essential capabilities.	Functional	equal	Least Functionality	CFG-03	Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports,	10	
03.04.06.B	Least Functionality	Prohibit or restrict use of the following functions, ports, protocols, connections, and services: [Assignment: organization-defined functions,	Functional	subset of	System Hardening Through Baseline	CFG-02	protocols, and/or services. Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-	10	
03.04.06.B	Least Functionality	ports, protocols, connections, and services]. Prohibit or restrict use of the following functions, ports, protocols, connections, and services: [Assignment: organization-defined functions,	Functional	subset of	Configurations Configure Systems, Components or Services	CFG-02.5	accepted system hardening standards. Mechanisms exist to configure systems utilized in high-risk areas with more restrictive baseline configurations.	10	
03.04.06.B	Least Functionality	ports, protocols, connections, and services]. Prohibit or restrict use of the following functions, ports, protocols, connections, and services: [Assignment: organization-defined functions,	Functional	equal	for High-Risk Areas Least Functionality	CFG-03	more restrictive baseline configurations. Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting the use of ports,	10	
03.04.06.C	Least Functionality	ports, protocols, connections, and services]. Review the system [Assignment: organization-defined frequency] to identify	Functional	equal	Periodic Review	CFG-03.1	protocols, and/or services. Mechanisms exist to periodically review system configurations to identify	10	
		unnecessary or nonsecure functions, ports, protocols, connections, and services. Disable or remove functions, ports, protocols, connections, and services	runctional	equat	System Hardening	GFG-03.1	and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to develop, document and maintain secure baseline		
03.04.06.D	Least Functionality	bisable of remove functions, ports, protocols, connections, and services that are unnecessary or nonsecure.	Functional	subset of	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry- accepted system hardening standards.	10	
03.04.06.D	Least Functionality	Disable or remove functions, ports, protocols, connections, and services that are unnecessary or nonsecure.	Functional	subset of	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.	10	
03.04.06.D	Least Functionality	Disable or remove functions, ports, protocols, connections, and services that are unnecessary or nonsecure.	Functional	equal	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.	10	
03.04.07	Not Allocated Authorized Software –	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to
03.04.08 03.04.08.A	Allow by Exception Authorized Software – Allow by Exception	N/A Identify software programs authorized to execute on the system.	Functional	no relationship	N/A Asset Inventories	N/A 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	N/A 10	No requirements to map to
					Configuration		personnel. Mechanisms exist to implement and manage a Configuration		+



FDE#	FDE Name	Focal Document Floment (FDE) Description	STRM	STRM	SCF Control	SCF#	Secure Controls Framework (SCF)	Strength of Relationship	Notes (entional)
102#	- I DE Name	Focal Document Element (FDE) Description	Rationale	Relationship	- Sol Collifor	301#	Control Description Mechanisms exist to allow baseline controls to be specialized or	(optional)	Notes (optional)
03.04.08.A	Authorized Software – Allow by Exception	Identify software programs authorized to execute on the system.	Functional	intersects with	Baseline Tailoring	CFG-02.9	Mechanisms exist to autow baseline controls to be specialized or customized by applying a defined set of tailoring actions that are specific to: (1) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business success.	8	
03.04.08.A	Authorized Software – Allow by Exception	Identify software programs authorized to execute on the system.	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.	8	
03.04.08.A	Authorized Software – Allow by Exception	Identify software programs authorized to execute on the system.	Functional	intersects with	Explicitly Allow / Deny Applications	CFG-03.3	Mechanisms exist to explicitly allow (allowlist / whitelist) or block (denylist / blacklist) applications to control software that is authorized to execute on systems.	5	
03.04.08.B	Authorized Software – Allow by Exception	Implement a deny-all, allow-by-exception policy for the execution of authorized software programs on the system.	Functional	intersects with	Prevent Unauthorized Software Execution	CFG-03.2	Mechanisms exist to configure systems to prevent the execution of unauthorized software programs.	5	
03.04.08.B	Authorized Software – Allow by Exception	Implement a deny-all, allow-by-exception policy for the execution of authorized software programs on the system.	Functional	intersects with	Explicitly Allow / Deny Applications	CFG-03.3	Mechanisms exist to explicitly allow (allowlist / whitelist) or block (denylist / blacklist) applications to control software that is authorized to execute on systems.	5	
03.04.08.C	Authorized Software – Allow by Exception	Review and update the list of authorized software programs [Assignment: organization-defined frequency].	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	
03.04.08.C	Authorized Software – Allow by Exception	Review and update the list of authorized software programs [Assignment: organization-defined frequency].	Functional	intersects with	Periodic Review	CFG-03.1	Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	8	
03.04.08.C	Authorized Software – Allow by Exception	Review and update the list of authorized software programs [Assignment: organization-defined frequency].	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.	8	
03.04.09	Not Allocated System Component	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.04.10 03.04.10.A	Inventory System Component Inventory	N/A Develop and document an inventory of system components.	Functional	no relationship	N/A Asset Inventories	N/A 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.	N/A	No requirements to map to.
03.04.10.A	System Component Inventory	Develop and document an inventory of system components.	Functional	intersects with	Updates During Installations / Removals	AST-02.1	Mechanisms exist to update asset inventories as part of component installations, removals and asset upgrades.	8	
03.04.10.A	System Component Inventory	Develop and document an inventory of system components.	Functional	intersects with	Configuration Management Database	AST-02.9	Mechanisms exist to implement and manage a Configuration Management Database (CMDB), or similar technology, to monitor and	3	
03.04.10.B	System Component Inventory	Review and update the system component inventory [Assignment: organization-defined frequency].	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	
03.04.10.B	System Component	Review and update the system component inventory [Assignment:	Functional	intersects with	Updates During	AST-02.1	Mechanisms exist to update asset inventories as part of component	8	
03.04.10.B	System Component Inventory	organization-defined frequency]. Review and update the system component inventory [Assignment: organization-defined frequency].	Functional	intersects with	Installations / Removals Configuration Management Database (CMDB)	AST-02.9	installations, removals and asset upgrades. Mechanisms exist to implement and manage a Configuration Management Database (CMDB), or similar technology, to monitor and govern technology asset-specific information.	3	
03.04.10.C	System Component	Update the system component inventory as part of installations, removals,	Functional	equal	Updates During	AST-02.1	Mechanisms exist to update asset inventories as part of component	10	
	Inventory System Component	and system updates. Update the system component inventory as part of installations, removals,			Installations / Removals Configuration	AST-02.9	installations, removals and asset upgrades. Mechanisms exist to implement and manage a Configuration	8	
03.04.10.C	Inventory	and system updates.	Functional	intersects with	Management Database (CMDB)		Management Database (CMDB), or similar technology, to monitor and govern technology asset-specific information.		
03.04.11 03.04.11.A	Information Location	N/A Identify and document the location of CI and the system components on	Functional Functional	no relationship subset of	N/A Asset Governance	N/A AST-01	N/A Mechanisms exist to facilitate an IT Asset Management (ITAM) program	N/A 10	No requirements to map to.
03.04.11.A	Information Location	which the information is processed and stored. Identify and document the location of CI and the system components on which the information is processed and stored.	Functional	intersects with	Asset Inventories	AST-02	to implement and manage asset management controls. 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.	8	
03.04.11.A	Information Location	Identify and document the location of CI and the system components on which the information is processed and stored.	Functional	intersects with	Data Action Mapping	AST-02.8	Mechanisms exist to create and maintain a map of technology assets where sensitive/regulated data is stored, transmitted or processed.	8	
03.04.11.A	Information Location	Identify and document the location of CI and the system components on which the information is processed and stored.	Functional	intersects with	Network Diagrams & Data Flow Diagrams (DFDs)	AST-04	Mechanisms exist to maintain network architecture diagrams that: (I) Contain sulficient 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.	8	
				1	Asset Scope	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	5	
03.04.11.A	Information Location	Identify and document the location of CI and the system components on which the information is processed and stored.	Functional	intersects with	Classification		personnel (internal and third-parties).	-	
	Information Location		Functional Functional	intersects with		AST-04.2		5	
03.04.11.A		which the information is processed and stored. Identify and document the location of CI and the system components on			Classification Control Applicability Boundary Graphical	AST-04.2 CPL-01	personnel (internal and third-parties). Mechanisms exist to ensure control applicability is appropriately-determined for systems, applications, services and third parties by graphically representing applicable boundaries. Mechanisms exist for facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.		
03.04.11.A 03.04.11.A	Information Location	which the information is processed and stored. Identify and document the location of CI and the system components on which the information is processed and stored. Identify and document the location of CI and the system components on	Functional	intersects with	Classification Control Applicability Boundary Graphical Representation Statutory, Regulatory &		personnel (internal and third-parties). Mechanisms exist to ensure control applicability is appropriately-determined for systems, applications, services and third parties by graphically representing applicable boundaries. Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls. 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	
03.04.11.A 03.04.11.A	Information Location Information Location	which the information is processed and stored. Identify and document the location of CI and the system components on which the information is processed and stored. Identify and document the location of CI and the system components on which the information is processed and stored. Identify and document the location of CI and the system components on	Functional	intersects with	Classification Control Applicability Boundary Graphical Representation Statutory, Regulatory & Contractual Compliance	CPL-01	personnel (internal and third-parties). Mechanisms exist to ensure control applicability is appropriately-determined for systems, applications, services and third parties by graphically representing applicable boundaries. Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls. Mechanisms exist to document and validate the scope of cybersecurity & data privacy controls that are determined to meet statutory, regulatory	5	



			STRM	STRM			Secure Controls Framework (SCF)	Strength of	
FDE#	FDE Name	Focal Document Element (FDE) Description	Rationale	Relationship	SCF Control	SCF#	Control Description	Relationship (optional)	Notes (optional)
03.04.11.A	Information Location	Identify and document the location of CI and the system components on which the information is processed and stored.	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.	8	
03.04.11.B	Information Location	Document changes to the system or system component location where Cl is processed and stored.	Functional	intersects with	Data Action Mapping	AST-02.8	Mechanisms exist to create and maintain a map of technology assets where sensitive/regulated data is stored, transmitted or processed.	5	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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.	3	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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).	3	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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.	3	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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.	3	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	Functional	intersects with	Stakeholder Notification of Changes	CHG-05	Mechanisms exist to ensure stakeholders are made aware of and understand the impact of proposed changes.	8	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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.	3	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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.	3	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.04.11.B	Information Location	Document changes to the system or system component location where CI is processed and stored.	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	
03.04.12	System and Component Configuration for High- Risk Areas	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.04.12.A	System and Component Configuration for High- Risk Areas	Issue systems or system components with the following configurations to individuals traveling to high-risk locations: [Assignment: organization-defined system configurations].	Functional	subset of	Travel-Only Devices	AST-24	Mechanisma exist to issue personnel travelling overseas with temporary, toaner or "travel-only" end user technology (e.g., laptops and mobile devices) when travelling to authoritarian countries with a higher-than average risk for Intellectual Property (IP) theft or espionage against individuals and private companies.	10	
03.04.12.A	System and Component Configuration for High- Risk Areas	Issue systems or system components with the following configurations to individuals traveling to high-risk locations: [Assignment: organization-defined system configurations].	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.	8	
03.04.12.A	System and Component Configuration for High- Risk Areas	Issue systems or system components with the following configurations to individuals traveling to high-risk locations: [Assignment: organization-defined system configurations].	Functional	intersects with	Baseline Tailoring	CFG-02.9	Mechanisms exist to allow baseline controls to be specialized or customized by applying a defined set of failoring actions that are specific to: (1) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business success. Mechanisms exist to issue personnel travelling overseas with temporary,	8	
03.04.12.B	System and Component Configuration for High- Risk Areas	Apply the following security requirements to the systems or components when the individuals return from travel: [Assignment: organization-defined security requirements].	Functional	intersects with	Travel-Only Devices	AST-24	Indicate the state of the state	8	
03.04.12.B	System and Component Configuration for High- Risk Areas	Apply the following security requirements to the systems or components when the individuals return from travel: [Assignment: organization-defined security requirements].	Functional	intersects with	Re-Imaging Devices After Travel	AST-25	Mechanisms exist to re-image end user technology (e.g., laptops and mobile devices) when returning from oversaes travel to an authoritarian country with a higher-than average risk for Intellectual Property (IP) theft or espionage against individuals and private companies.	8	
03.04.12.B	System and Component Configuration for High- Risk Areas	Apply the following security requirements to the systems or components when the individuals return from travel: [Assignment: organization-defined security requirements].	Functional	intersects with	Mobile Device Tampering	MDM-04	Mechanisms exist to protect mobile devices from tampering through inspecting devices returning from locations that the organization deems to be of significant risk, prior to the device being connected to the organization's network.	8	
03.05.01	User Identification and Authentication	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.05.01.A	User Identification and Authentication	Uniquely identify and authenticate system users, and associate that unique identification with processes acting on behalf of those users.	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
03.05.01.A	User Identification and Authentication	Uniquely identify and authenticate system users, and associate that unique identification with processes acting on behalf of those users.	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).	8	
03.05.01.A	User Identification and Authentication	Uniquely identify and authenticate system users, and associate that unique identification with processes acting on behalf of those users.	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.	8	
03.05.01.A	User Identification and Authentication	Uniquely identify and authenticate system users, and associate that unique identification with processes acting on behalf of those users.	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.	8	
03.05.01.A	User Identification and Authentication	Uniquely identify and authenticate system users, and associate that unique identification with processes acting on behalf of those users.	Functional	intersects with	Identification & Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	3	
03.05.01.B	User Identification and Authentication	Re-authenticate users when [Assignment: organization-defined circumstances or situations requiring re-authentication].	Functional	intersects with	Re-Authentication	IAC-14	Mechanisms exist to force users and devices to re-authenticate according to organization-defined circumstances that necessitate re- authentication. Mechanisms exist to strictly govern the use of Authenticate, Authorize	8	
03.05.02	Device Identification and Authentication	Uniquely identify and authenticate [Assignment: organization-defined devices or types of devices] before establishing a system connection.	Functional	intersects with	Authenticate, Authorize and Audit (AAA) Identification &	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP). Mechanisms exist to uniquely identify and centrally Authenticate,	8	
03.05.02	Device Identification and Authentication	Uniquely identify and authenticate [Assignment: organization-defined devices or types of devices] before establishing a system connection.	Functional	intersects with	Authentication & Devices	IAC-04	Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant.	5	
03.05.02	Device Identification and Authentication	Uniquely identify and authenticate [Assignment: organization-defined devices or types of devices] before establishing a system connection.	Functional	intersects with	Identification & Authentication for Third Party Systems & Services	IAC-05	Mechanisms exist to identify and authenticate third-party systems and services.	5	
03.05.03	Multi-Factor Authentication	Implement multi-factor authentication for access to privileged and non- privileged accounts.	Functional	subset of	Multi-Factor Authentication (MFA)	IAC-06	Automated mechanisms exist to enforce Multi-Factor Authentication (MFA) for: (1) Remote network access; (2) Third-party systems, applications and/or services; and/ or (3) Non-console access to critical systems or systems that store,	10	
03.05.03	Multi-Factor Authentication	Implement multi-factor authentication for access to privileged and non-privileged accounts.	Functional	intersects with	Network Access to Privileged Accounts	IAC-06.1	transmit and/or process sensitive/regulated data. Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for privileged accounts.	3	

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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
03.05.03	Multi-Factor Authentication	Implement multi-factor authentication for access to privileged and non- privileged accounts.	Functional	intersects with	Network Access to Non- Privileged Accounts	IAC-06.2	Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for non-privileged accounts.	3	
03.05.03	Multi-Factor	Implement multi-factor authentication for access to privileged and non-	Functional	intersects with	Local Access to	IAC-06.3	Mechanisms exist to utilize Multi-Factor Authentication (MFA) to	3	
03.05.04	Authentication Replay-Resistant	privileged accounts. Implement replay-resistant authentication mechanisms for access to	Functional	egual	Privileged Accounts Replay-Resistant	IAC-02.2	authenticate local access for privileged accounts. Automated mechanisms exist to employ replay-resistant authentication.	10	
03.05.05	Authentication Identifier Management	privileged and non-privileged accounts. N/A	Functional		Authentication N/A	N/A	N/A	N/A	No requirements to map to.
03.05.05.A	Identifier Management	Receive authorization from organizational personnel or roles to assign an individual, group, role, service, or device identifier.	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
03.05.05.A	Identifier Management	Receive authorization from organizational personnel or roles to assign an individual, group, role, service, or device identifier.	Functional	intersects with	User Provisioning & De- Provisioning	IAC-07	Mechanisms exist to utilize a formal user registration and de-registration process that governs the assignment of access rights.	8	
03.05.05.A	Identifier Management	Receive authorization from organizational personnel or roles to assign an	Functional	intersects with	Change of Roles & Duties	IAC-07.1	Mechanisms exist to revoke user access rights following changes in	8	
		individual, group, role, service, or device identifier. Receive authorization from organizational personnel or roles to assign an			Management Approval		personnel roles and duties, if no longer necessary or permitted. Mechanisms exist to ensure management approvals are required for new		
03.05.05.A	Identifier Management	individual, group, role, service, or device identifier.	Functional	subset of	For New or Changed Accounts	IAC-28.1	accounts or changes in permissions to existing accounts.	10	
03.05.05.B	Identifier Management	Select and assign an identifier that identifies an individual, group, role, service, or device.	Functional	intersects with	Identifier Management (User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and systems.	5	
03.05.05.B	Identifier Management	Select and assign an identifier that identifies an individual, group, role, service, or device.	Functional	subset of	User Identity (ID) Management	IAC-09.1	Mechanisms exist to ensure proper user identification management for non-consumer users and administrators.	10	
03.05.05.B	Identifier Management	Select and assign an identifier that identifies an individual, group, role,	Functional	intersects with	Automated System Account Management	IAC-15.1	Automated mechanisms exist to support the management of system	3	
03.03.03.B	identinei Pianagement	service, or device.	Tunctionat	IIItelaecta with	(Directory Services)	IAC-13.1	accounts (e.g., directory services).		
03.05.05.C	Identifier Management	Prevent the reuse of identifiers for [Assignment: organization-defined time period].	Functional	intersects with	Identifier Management (User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and systems.	8	
03.05.05.C	Identifier Management	Prevent the reuse of identifiers for [Assignment: organization-defined time	Functional	intersects with	Automated System Account Management	IAC-15.1	Automated mechanisms exist to support the management of system	5	
		period]. Manage individual identifiers by uniquely identifying each individual as			(Directory Services)		accounts (e.g., directory services). Mechanisms exist to strictly govern the use of Authenticate, Authorize		
03.05.05.D	Identifier Management	[Assignment: organization-defined characteristic identifying individual	Functional	subset of	Authenticate, Authorize and Audit (AAA)	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an	10	
		status]. Manage individual identifiers by uniquely identifying each individual as			Identifier Management		External Service Provider (ESP). Mechanisms exist to govern naming standards for usernames and		
03.05.05.D	Identifier Management	[Assignment: organization-defined characteristic identifying individual status].	Functional	intersects with	(User Names)	IAC-09	systems.	3	
03.05.05.D	Identifier Management	Manage individual identifiers by uniquely identifying each individual as [Assignment: organization-defined characteristic identifying individual	Functional	intersects with	Identity User Status	IAC-09.2	Mechanisms exist to identify contractors and other third-party users	8	
	_	status]. Manage individual identifiers by uniquely identifying each individual as					through unique username characteristics.		
03.05.05.D	Identifier Management	[Assignment: organization-defined characteristic identifying individual	Functional	intersects with	Privileged Account Identifiers	IAC-09.5	Mechanisms exist to uniquely manage privileged accounts to identify the account as a privileged user or service.	8	
		status]. Manage individual identifiers by uniquely identifying each individual as			Automated System		Automated mechanisms exist to support the management of system		
03.05.05.D	Identifier Management	[Assignment: organization-defined characteristic identifying individual status].	Functional	intersects with	Account Management (Directory Services)	IAC-15.1	accounts (e.g., directory services).	5	
03.05.06 03.05.07	Not Allocated Password Management	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
		Maintain a list of commonly-used, expected, or compromised passwords,			Authenticate, Authorize		Mechanisms exist to strictly govern the use of Authenticate, Authorize		
03.05.07.A	Password Management	and update the list [Assignment: organization-defined frequency] and when organizational passwords are suspected to have been compromised.	Functional	intersects with	and Audit (AAA)	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	3	
03.05.07.A	December Management	Maintain a list of commonly-used, expected, or compromised passwords, and update the list [Assignment: organization-defined frequency] and when	Functional	intersects with	Authenticator	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and	3	
03.05.07.A	Password Management	organizational passwords are suspected to have been compromised.	Functional	intersects with	Management	IAC-10	Ensure the strength of authentication is appropriate to the classification of the data being accessed.	3	
		Maintain a list of commonly-used, expected, or compromised passwords,					Mechanisms exist to protect and store passwords via a password		
03.05.07.A	Password Management	and update the list [Assignment: organization-defined frequency] and when organizational passwords are suspected to have been compromised.	Functional	intersects with	Password Managers	IAC-10.11	manager tool.	8	
		Maintain a list of commonly-used, expected, or compromised passwords,					Automated mechanisms exist to determine if password authenticators		
03.05.07.A	Password Management	and update the list [Assignment: organization-defined frequency] and when	Functional	intersects with	Automated Support For Password Strength	IAC-10.4	are sufficiently strong enough to satisfy organization-defined password	8	
		organizational passwords are suspected to have been compromised.					length and complexity requirements. Mechanisms exist to strictly govern the use of Authenticate, Authorize		
03.05.07.B	Password Management	Verify that passwords are not found on the list of commonly used, expected, or compromised passwords when users create or update passwords.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	3	
							Mechanisms exist to: (1) Securely manage authenticators for users and devices; and		
03.05.07.B	Password Management	Verify that passwords are not found on the list of commonly used, expected, or compromised passwords when users create or update passwords.	Functional	intersects with	Authenticator Management	IAC-10	(2) Ensure the strength of authentication is appropriate to the	3	
		Verify that passwords are not found on the list of commonly used, expected,					classification of the data being accessed. Mechanisms exist to protect and store passwords via a password		
03.05.07.B	Password Management	or compromised passwords when users create or update passwords.	Functional	intersects with	Password Managers	IAC-10.11	manager tool.	8	
03.05.07.B	Password Management	Verify that passwords are not found on the list of commonly used, expected,	Functional	intersects with	Automated Support For	IAC-10.4	Automated mechanisms exist to determine if password authenticators are sufficiently strong enough to satisfy organization-defined password	8	
		or compromised passwords when users create or update passwords.			Password Strength		length and complexity requirements.		
03.05.07.C	Password Management	Transmit passwords only over cryptographically protected channels.	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	3	
							External Service Provider (ESP). Mechanisms exist to:		
03.05.07.C	Password Management	Transmit passwords only over cryptographically protected channels.	Functional	intersects with	Authenticator Management	IAC-10	(1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the	3	
							classification of the data being accessed. Mechanisms exist to protect and store passwords via a password		
03.05.07.C	Password Management	Transmit passwords only over cryptographically protected channels.	Functional	intersects with	Password Managers	IAC-10.11	manager tool. Mechanisms exist to protect authenticators commensurate with the	3	
03.05.07.C	Password Management	Transmit passwords only over cryptographically protected channels.	Functional	subset of	Protection of Authenticators	IAC-10.5	sensitivity of the information to which use of the authenticator permits	10	
					Automated System		access. Automated mechanisms exist to support the management of system		
03.05.07.C	Password Management	Transmit passwords only over cryptographically protected channels.	Functional	intersects with	Account Management (Directory Services)	IAC-15.1	accounts (e.g., directory services).	8	
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	System Hardening Through Baseline	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-	5	
					Configurations		accepted system hardening standards. Mechanisms exist to strictly govern the use of Authenticate, Authorize	-	
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an	8	
							External Service Provider (ESP). Mechanisms exist to:		
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	Authenticator Management	IAC-10	(1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the	5	
00.05			F		P		classification of the data being accessed. Mechanisms exist to protect and store passwords via a password		
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	Password Managers	IAC-10.11	manager tool. Mechanisms exist to protect authenticators commensurate with the	8	
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	Protection of Authenticators	IAC-10.5	sensitivity of the information to which use of the authenticator permits	8	
			_		No Embedded		access. Mechanisms exist to ensure that unencrypted, static authenticators are		
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	Unencrypted Static Authenticators	IAC-10.6	not embedded in applications, scripts or stored on function keys.	8	
03.05.07.D	Password Management	Store passwords in a cryptographically protected form.	Functional	intersects with	Automated System Account Management	IAC-15.1	Automated mechanisms exist to support the management of system	8	
					(Directory Services) System Hardening		accounts (e.g., directory services). Mechanisms exist to develop, document and maintain secure baseline		
03.05.07.E	Password Management	Select a new password upon first use after account recovery.	Functional	intersects with	Through Baseline	CFG-02	configurations for technology platforms that are consistent with industry-	8	
				1	Configurations Authenticate, Authorize		accepted system hardening standards. Mechanisms exist to strictly govern the use of Authenticate, Authorize		
03.05.07.E	rassword Management	Select a new password upon first use after account recovery.	Functional	intersects with	and Audit (AAA)	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	8	
03.05.07.E	December M.	Colont a service of the first transfer	E-matter of		Authenticator	140.40	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and	-	
ua.ub.u7.E	r asswurd management	Select a new password upon first use after account recovery.	Functional	intersects with	Management	IAC-10	(2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	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	Notes (optional)
03.05.07.E	Password Management	Select a new password upon first use after account recovery.	Functional	subset of	Password-Based	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based	(optional)	
	_				Authentication		authentication. Mechanisms exist to ensure default authenticators are changed as part		
03.05.07.E	Password Management	Select a new password upon first use after account recovery.	Functional	intersects with	Default Authenticators Automated System	IAC-10.8	of account creation or system installation.	3	
03.05.07.E	Password Management	Select a new password upon first use after account recovery.	Functional	intersects with	Account Management (Directory Services) System Hardening	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services). Mechanisms exist to develop, document and maintain secure baseline	5	
03.05.07.F	Password Management	Enforce the following composition and complexity rules for passwords: [Assignment: organization-defined composition and complexity rules].	Functional	subset of	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry- accepted system hardening standards.	10	
03.05.07.F	Password Management	Enforce the following composition and complexity rules for passwords: [Assignment: organization-defined composition and complexity rules].	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	8	
03.05.07.F	Password Management	Enforce the following composition and complexity rules for passwords: [Assignment: organization-defined composition and complexity rules].	Functional	intersects with	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	8	
03.05.07.F	Password Management	Enforce the following composition and complexity rules for passwords: [Assignment: organization-defined composition and complexity rules].	Functional	intersects with	Password Managers	IAC-10.11	Mechanisms exist to protect and store passwords via a password manager tool.	8	
03.05.07.F	Password Management	Enforce the following composition and complexity rules for passwords: [Assignment: organization-defined composition and complexity rules].	Functional	intersects with	Automated System Account Management (Directory Services)	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services).	8	
03.05.08	Not Allocated Not Allocated	Withdrawn by NIST. Withdrawn by NIST.	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.05.10	Not Allocated Not Allocated	Withdrawn by NIST.	Functional	no relationship	N/A N/A	N/A	N/A	N/A	No requirements to map to.
03.05.11	Authentication Feedback	Obscure feedback of authentication information during the authentication process.	Functional	equal	Authenticator Feedback	IAC-11	Mechanisms exist to obscure the feedback of authentication information during the authentication process to protect the information from possible exploitation/use by unauthorized individuals.	10	
03.05.12	Authenticator Management	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.05.12.A	Authenticator Management	Verify the identity of the individual, group, role, service, or device receiving the authenticator as part of the initial authenticator distribution.	Functional	subset of	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the	10	
03.05.12.A	Authenticator Management	Verify the identity of the individual, group, role, service, or device receiving the authenticator as part of the initial authenticator distribution.	Functional	intersects with	In-Person or Trusted Third-Party Registration	IAC-10.3	classification of the data being accessed. Mechanisms exist to conduct in-person or trusted third-party identify verification before user accounts for third-parties are created.	8	
03.05.12.A	Authenticator Management	Verify the identity of the individual, group, role, service, or device receiving the authenticator as part of the initial authenticator distribution.	Functional	intersects with	Identity Proofing (Identity Verification)	IAC-28	Mechanisms exist to verify the identity of a user before issuing	8	
03.05.12.B	Authenticator Management	the authenticator as part of the initial authenticator distribution. Establish initial authenticator content for any authenticators issued by the organization.	Functional	subset of	Authenticator Management	IAC-10	authenticators or modifying access permissions. Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the	10	
03.05.12.B	Authenticator	Establish initial authenticator content for any authenticators issued by the	Functional	intersects with	Password-Based	IAC-10.1	classification of the data being accessed. Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based	5	
	Management	organization. Establish and implement administrative procedures for initial authenticator			Authentication Authenticator		authentication. Mechanisms exist to:		
03.05.12.C	Management	distribution; for lost, compromised, or damaged authenticators; and for revoking authenticators. Establish and implement administrative procedures for initial authenticator	Functional	subset of	Management	IAC-10	Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed. Mechanisms exist to enforce complexity, length and lifespan	10	
03.05.12.C	Authenticator Management	distribution; for lost, compromised, or damaged authenticators; and for revoking authenticators. Establish and implement administrative procedures for initial authenticator	Functional	intersects with	Password-Based Authentication	IAC-10.1	considerations to ensure strong criteria for password-based authentication.	5	
03.05.12.C	Authenticator Management	distribution; for lost, compromised, or damaged authenticators; and for revoking authenticators.	Functional	intersects with	Identity Proofing (Identity Verification)	IAC-28	Mechanisms exist to verify the identity of a user before issuing authenticators or modifying access permissions.	5	
03.05.12.D	Authenticator Management	Change default authenticators at first use.	Functional	subset of	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.	10	
03.05.12.D	Authenticator Management	Change default authenticators at first use.	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).	8	
03.05.12.D	Authenticator Management	Change default authenticators at first use.	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	8	
03.05.12.D	Authenticator Management	Change default authenticators at first use.	Functional	intersects with	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	8	
03.05.12.D	Authenticator Management	Change default authenticators at first use.	Functional	intersects with	Default Authenticators	IAC-10.8	Mechanisms exist to ensure default authenticators are changed as part of account creation or system installation.	8	
03.05.12.D	Authenticator Management	Change default authenticators at first use.	Functional	intersects with	Automated System Account Management (Directory Services)	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services).	8	
03.05.12.E	Authenticator Management	Change or refresh authenticators [Assignment: organization-defined frequency] or when the following events occur: [Assignment: organization-defined events].	Functional	subset of	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	10	
03.05.12.E	Authenticator Management	demned events). Change or refresh authenticators [Assignment: organization-defined frequency] or when the following events occur: [Assignment: organization-defined events].	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the	8	
03.05.12.E	Authenticator Management	Change or refresh authenticators [Assignment: organization-defined frequency] or when the following events occur: [Assignment: organization-defined events].	Functional	intersects with	Password-Based Authentication	IAC-10.1	classification of the data being accessed. Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	5	
03.05.12.E	Authenticator Management	Change or refresh authenticators [Assignment: organization-defined frequency] or when the following events occur: [Assignment: organization-defined events].	Functional	intersects with	Automated System Account Management (Directory Services)	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services).	5	
03.05.12.F	Authenticator Management	Protect authenticator content from unauthorized disclosure and modification.	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).	3	
03.05.12.F	Authenticator Management	Protect authenticator content from unauthorized disclosure and modification.	Functional	intersects with	Authenticator Management	IAC-10	Mechanisms exist to: (1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	5	
03.05.12.F	Authenticator Management	Protect authenticator content from unauthorized disclosure and modification.	Functional	intersects with	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	3	
03.05.12.F	Authenticator Management	Protect authenticator content from unauthorized disclosure and modification.	Functional	subset of	Protection of Authenticators	IAC-10.5	Mechanisms exist to protect authenticators commensurate with the sensitivity of the information to which use of the authenticator permits	10	
03.05.12.F	Authenticator Management	Protect authenticator content from unauthorized disclosure and modification.	Functional	intersects with	Automated System Account Management	IAC-15.1	Automated mechanisms exist to support the management of system accounts (e.g., directory services).	3	
03.06.01	Incident Handling	Implement an incident-handling capability that is consistent with the incident response plan and includes preparation, detection and analysis, containment, eradication, and recovery.	Functional	subset of	(Directory Services) 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	
03.06.01	Incident Handling	Implement an incident-handling capability that is consistent with the incident response plan and includes preparation, detection and analysis, containment, eradication, and recovery.	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.	8	
03.06.01	Incident Handling	Implement an incident-handling capability that is consistent with the incident response plan and includes preparation, detection and analysis, containment, eradication, and recovery.	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.	8	



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03.06.01	Incident Handling	Implement an incident-handling capability that is consistent with the incident response plan and includes preparation, detection and analysis, containment, eradication, and recovery.	Functional	intersects with	Sensitive / Regulated Data Spill Response	IRO-12	Mechanisms exist to respond to sensitive /regulated data spills.	3	
03.06.02	Incident Monitoring, Reporting, and Response	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.06.02.A	Assistance Incident Monitoring, Reporting, and Response Assistance	Track and document system security incidents.	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	10	
03.06.02.A	Incident Monitoring, Reporting, and Response Assistance	Track and document system security incidents.	Functional	intersects with	Situational Awareness For Incidents	IRO-09	[6] Recovery. 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.	8	
03.06.02.B	Incident Monitoring, Reporting, and Response Assistance	Report suspected incidents to the organizational incident response capability within [Assignment: organization-defined time period].	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	
03.06.02.B	Incident Monitoring, Reporting, and Response Assistance	Report suspected incidents to the organizational incident response capability within [Assignment: organization-defined time period].	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	
03.06.02.B	Incident Monitoring, Reporting, and Response Assistance	Report suspected incidents to the organizational incident response capability within [Assignment: organization-defined time period].	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	
03.06.02.B	Incident Monitoring, Reporting, and Response Assistance	Report suspected incidents to the organizational incident response capability within [Assignment: organization-defined time period].	Functional	intersects with	Cyber Incident Reporting for Sensitive Data	IRO-10.2	Mechanisms exist to report sensitive/regulated data incidents in a timely manner. Mechanisms exist to cover:	5	
03.06.02.C	Incident Monitoring, Reporting, and Response Assistance	Report incident information to [Assignment: organization-defined authorities].	Functional	subset of	Incident Handling	IRO-02	(1) Preparation: (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	10	
03.06.02.C	Incident Monitoring, Reporting, and Response Assistance	Report incident information to [Assignment: organization-defined authorities].	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	
03.06.02.C	Incident Monitoring, Reporting, and Response Assistance	Report incident information to [Assignment: organization-defined authorities].	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	
03.06.02.C	Incident Monitoring, Reporting, and Response Assistance	Report incident information to [Assignment: organization-defined authorities].	Functional	intersects with	Regulatory & Law Enforcement Contacts	IRO-14	Mechanisms exist to maintain incident response contacts with applicable regulatory and law enforcement agencies.	8	
03.06.02.D	Incident Monitoring, Reporting, and Response Assistance	Provide an incident response support resource that offers advice and assistance to system users on handling and reporting incidents.	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	
03.06.02.D	Incident Monitoring, Reporting, and Response Assistance	Provide an incident response support resource that offers advice and assistance to system users on handling and reporting incidents.	Functional	subset of	Incident Reporting Assistance	IRO-11	Mechanisms exist to provide incident response advice and assistance to users of systems for the handling and reporting of actual and potential cybersecurity & data privacy incidents.	10	
03.06.03	Incident Response Testing	Test the effectiveness of the incident response capability [Assignment: organization-defined frequency].	Functional	subset of	Incident Response Testing	IRO-06	Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.	10	
03.06.04	Incident Response Training	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.06.04.A	Incident Response Training	Provide incident response training to system users consistent with assigned roles and responsibilities:	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	8	
03.06.04.A	Incident Response Training	Provide incident response training to system users consistent with assigned roles and responsibilities:	Functional	intersects with	Formal Indoctrination	HRS-04.2	Mechanisms exist to formally educate authorized users on proper data handling practices for all the relevant types of data to which they have	8	
03.06.04.A	Incident Response Training	Provide incident response training to system users consistent with assigned roles and responsibilities:	Functional	subset of	Incident Response Training	IRO-05	access. Mechanisms exist to train personnel in their incident response roles and responsibilities. Mechanisms exist to provide role-based cybersecurity & data privacy-	10	
03.06.04.A	Incident Response Training	Provide incident response training to system users consistent with assigned roles and responsibilities:	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually thereafter.	8	
03.06.04.A.01	Incident Response Training	Within [Assignment: organization-defined time period] of assuming an incident response role or responsibility or acquiring system access,	Functional	intersects with	Formal Indoctrination	HRS-04.2	Mechanisms exist to formally educate authorized users on proper data handling practices for all the relevant types of data to which they have access.	3	
03.06.04.A.01	Incident Response Training	Within [Assignment: organization-defined time period] of assuming an incident response role or responsibility or acquiring system access,	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	8	
03.06.04.A.02	Incident Response Training	When required by system changes, and	Functional	intersects with	Role-Based Cybersecurity & Data Privacy Training	SAT-03	(3) Annually thereafter. 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	
03.06.04.A.02	Incident Response Training	When required by system changes, and	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 the user might encounter the user's specific day-to-day business operations	5	
03.06.04.A.03	Incident Response Training	[Assignment: organization-defined frequency] thereafter.	Functional	intersects with	Incident Response Training	IRO-05	Mechanisms exist to train personnel in their incident response roles and responsibilities.	5	
03.06.04.A.03	Incident Response Training	[Assignment: organization-defined frequency] thereafter.	Functional	intersects with	Cybersecurity & Data Privacy Awareness	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function.	5	
03.06.04.B	Incident Response Training	Review and update incident response training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	Functional	intersects with	Training IRP Update	IRO-04.2	Mechanisms exist to regularly review and modify incident response practices to incorporate lessons learned, business process changes and	8	
03.06.04.B	Incident Response Training	defining events). Review and update incident response training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	Functional	intersects with	Continuous Incident Response Improvements	IRO-04.3	industry developments, as necessary. Mechanisms exist to use qualitative and quantitative data from incident response testing to: (1) Determine the effectiveness of incident response processes; (2) Continuously improve incident response processes; and (3) Provide incident response measures and metrics that are accurate, consistent, and in a reproducible format.	8	
03.06.04.B	Incident Response Training	Review and update incident response training content [Assignment: organization-defined frequency] and following [Assignment: organization- defined events].	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.	8	
03.06.04.B	Incident Response Training	Review and update incident response training content [Assignment: organization-defined frequency] and following (Assignment: organization- defined events].	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 the	3	



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03.06.04.B	Incident Response Training	Review and update incident response training content [Assignment: organization-defined frequency] and following [Assignment: organization-defined events].	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.	3	
03.06.05	Incident Response Plan	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.06.05.A	Incident Response Plan	Develop an incident response plan that:	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.A.01	Incident Response Plan	Provides the organization with a roadmap for implementing its incident response capability,	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.A.02	Incident Response Plan	Describes the structure and organization of the incident response capability,	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.A.03	Incident Response Plan	Provides a high-level approach for how the incident response capability fits into the overall organization,	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.A.04	Incident Response Plan	Defines reportable incidents,	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.A.05	Incident Response Plan	Addresses the sharing of incident information, and	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.A.06	Incident Response Plan	Designates responsibilities to organizational entities, personnel, or roles.	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.B	Incident Response Plan	Distribute copies of the incident response plan to designated incident response personnel (identified by name and/or by role) and organizational elements.	Functional	subset of	Incident Response Plan (IRP)	IRO-04	Mechanisms exist to maintain and make available a current and viable Incident Response Plan (IRP) to all stakeholders.	10	
03.06.05.C	Incident Response Plan	Update the incident response plan to address system and organizational changes or problems encountered during plan implementation, execution, or testing.	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	
03.06.05.D	Incident Response Plan	Protect the incident response plan from unauthorized disclosure.	Functional	subset of	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	10	
03.06.05.D	Incident Response Plan	Protect the incident response plan from unauthorized disclosure.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	8	
03.06.05.D	Incident Response Plan	Protect the incident response plan from unauthorized disclosure.	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.	8	
03.06.05.D	Incident Response Plan	Protect the incident response plan from unauthorized disclosure.	Functional	intersects with	Access To Sensitive / Regulated Data	IAC-20.1	Mechanisms exist to limit access to sensitive/regulated data to only those individuals whose job requires such access.	8	
03.07.01 03.07.02	Not Allocated Not Allocated	Withdrawn by NIST. Withdrawn by NIST.	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.07.02 03.07.03 03.07.04	Not Allocated Not Allocated Maintenance Tools	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to. No requirements to map to.
03.07.04 03.07.04.A	Maintenance Tools Maintenance Tools	N/A Approve, control, and monitor the use of system maintenance tools.	Functional Functional	no relationship intersects with	N/A Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program	N/A 5	requirements to map to.
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	Functional	intersects with	Security of Assets & Media	AST-05	to implement and manage asset management controls. Mechanisms exist to maintain strict control over the internal or external distribution of any kind of sensitive/regulated media. Mechanisms exist to develop, disseminate, review & update procedures	3	
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	Functional	subset of	Maintenance Operations	MNT-01	Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise. Mechanisms exist to conduct controlled maintenance activities	10	
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	Functional	intersects with	Controlled Maintenance	MNT-02	throughout the lifecycle of the system, application or service.	8	
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	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).	8	
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	Functional	intersects with	Preventative Maintenance	MNT-03.1	Mechanisms exist to perform preventive maintenance on critical systems, applications and services.	8	
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	Functional	intersects with	Maintenance Tools	MNT-04	Mechanisms exist to control and monitor the use of system maintenance tools.	8	
03.07.04.A	Maintenance Tools	Approve, control, and monitor the use of system maintenance tools.	Functional	intersects with	Off-Site Maintenance	MNT-09	Mechanisms exist to ensure off-site maintenance activities are conducted securely and the asset(s) undergoing maintenance actions are secured during physical transfer and storage while off-site.	3	
03.07.04.B	Maintenance Tools	Check media with diagnostic and test programs for malicious code before it is used in the system.	Functional	subset of	Inspect Tools	MNT-04.1	Mechanisms exist to inspect maintenance tools carried into a facility by maintenance personnel for improper or unauthorized modifications.	10	
03.07.04.C	Maintenance Tools	Prevent the removal of system maintenance equipment containing CI by verifying that there is no CI on the equipment, sanitizing or destroying the equipment, or retaining the equipment within the facility.	Functional	intersects with	Secure Disposal, Destruction or Re-Use of Equipment	AST-09	Mechanisms exist to securely dispose of, destroy or repurpose system components using organization-defined techniques and methods to prevent information being recovered from these components.	5	
03.07.04.C	Maintenance Tools	Prevent the removal of system maintenance equipment containing CI by verifying that there is no CI on the equipment, sanitizing or destroying the equipment, or retaining the equipment within the facility.	Functional	intersects with	System Media Sanitization	DCH-09	Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.	8	
03.07.04.C	Maintenance Tools	Prevent the removal of system maintenance equipment containing CI by verifying that there is no CI on the equipment, sanitizing or destroying the equipment, or retaining the equipment within the facility.	Functional	intersects with	Prevent Unauthorized Removal	MNT-04.3	Mechanisms exist to prevent or control the removal of equipment undergoing maintenance that containing organizational information.	8	
03.07.05	Nonlocal Maintenance	N/A	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to strictly govern the use of Authenticate, Authorize	N/A	No requirements to map to.
03.07.05.A	Nonlocal Maintenance	Approve and monitor nonlocal maintenance and diagnostic activities.	Functional	intersects with	Authenticate, Authorize and Audit (AAA)	IAC-01.2	and Audit (AAA) solutions, both on-premises and those hosted by an External Service Provider (ESP).	8	
03.07.05.A		Approve and monitor nonlocal maintenance and diagnostic activities.	Functional	intersects with	Privileged Access by Non- Organizational Users	IAC-05.2	Mechanisms exist to prohibit privileged access by non-organizational users. Mechanisms exist to conduct controlled maintenance activities	3	
03.07.05.A	Nonlocal Maintenance	Approve and monitor nonlocal maintenance and diagnostic activities.	Functional	intersects with	Controlled Maintenance	MNT-02	Hechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service. Mechanisms exist to authorize, monitor and control remote, non-local	8	
03.07.05.A	Nonlocal Maintenance	Approve and monitor nonlocal maintenance and diagnostic activities.	Functional	intersects with	Remote Maintenance	MNT-05	maintenance and diagnostic activities.	8	
03.07.05.A	Nonlocal Maintenance	Approve and monitor nonlocal maintenance and diagnostic activities.	Functional	intersects with	Auditing Remote Maintenance	MNT-05.1	Mechanisms exist to audit remote, non-local maintenance and diagnostic sessions, as well as review the maintenance action performed during remote maintenance sessions.	3	
03.07.05.A	Nonlocal Maintenance	Approve and monitor nonlocal maintenance and diagnostic activities.	Functional	intersects with	Remote Maintenance Pre- Approval	MNT-05.5	Mechanisms exist to require maintenance personnel to obtain pre- approval and scheduling for remote, non-local maintenance sessions.	8	
03.07.05.B	Nonlocal Maintenance	Implement multi-factor authentication and replay resistance in the establishment of nonlocal maintenance and diagnostic sessions.	Functional	intersects with	Replay-Resistant Authentication	IAC-02.2	Automated mechanisms exist to employ replay-resistant authentication.	8	
03.07.05.B	Nonlocal Maintenance	Implement multi-factor authentication and replay resistance in the establishment of nonlocal maintenance and diagnostic sessions.	Functional	intersects with	Multi-Factor Authentication (MFA)	IAC-06	Automated mechanisms exist to enforce Multi-Factor Authentication (HPFA) for: (I) Remote network access; (2) Third-party systems, applications and/or services; and/ or (5) Non-consola access to critical systems or systems that store,	8	
02.07.05.	Nonlocal Maintenance	Implement multi-factor authentication and replay resistance in the	Francis 1	Interior -	Dometr M. S.	Mart co	transmit and/or process sensitive/regulated data. Mechanisms exist to authorize, monitor and control remote, non-local		
03.07.05.B	Nontocal Maintenance	establishment of nonlocal maintenance and diagnostic sessions.	Functional	intersects with	Remote Maintenance	MNT-05	maintenance and diagnostic activities. Cryptographic mechanisms exist to protect the integrity and	5	
03.07.05.B	Nonlocal Maintenance	Implement multi-factor authentication and replay resistance in the establishment of nonlocal maintenance and diagnostic sessions.	Functional	intersects with	Remote Maintenance Cryptographic Protection	MNT-05.3	confidentiality of remote, non-local maintenance and diagnostic communications. Automated mechanisms exist to log out users, both locally on the	3	
03.07.05.C	Nonlocal Maintenance	Terminate session and network connections when nonlocal maintenance is completed. Terminate session and network connections when nonlocal maintenance is	Functional	intersects with	Session Termination	IAC-25	network and for remote sessions, at the end of the session or after an organization-defined period of inactivity. Mechanisms exist to authorize, monitor and control remote, non-local	3	
03.07.05.C 03.07.05.C	Nonlocal Maintenance Nonlocal Maintenance	completed. Terminate session and network connections when nonlocal maintenance is	Functional	intersects with	Remote Maintenance	MNT-05 MNT-05.4	meintenance and diagnostic activities. Mechanisms exist to provide remote disconnect verification to ensure remote, non-local maintenance and diagnostic sessions are properly	5	
03.07.06	Maintenance Personnel	completed. N/A	Functional	no relationship	Disconnect Verification N/A	N/A	reminated. N/A	o N/A	No requirements to man to
03.07.06 03.07.06.A	Maintenance Personnel Maintenance Personnel	N/A Establish a process for maintenance personnel authorization.	Functional	intersects with	Defined Roles &	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all	N/A 5	No requirements to map to.
03.07.06.A		Establish a process for maintenance personnel authorization.	Functional	intersects with	Responsibilities Role-Based Access Control (RBAC)	IAC-08	personnel. Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to-know and fine-grained over control for consisting/personal data occess.	5	
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	Functional	subset of	Maintenance Operations	MNT-01	access control for sensitive/regulated data access. Mechanisms exist to develop, disseminate, review & update procedures to facilitate the implementation of maintenance controls across the enterprise.	10	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	Functional	intersects with	Authorized Maintenance	MNT-06	Mechanisms exist to maintain a current list of authorized maintenance	(optional) 5	
03.07.06.A		Establish a process for maintenance personnel authorization.	Functional	intersects with	Personnel Maintenance Personnel Without Appropriate	MNT-06.1	organizations or personnel. Mechanisms exist to ensure the risks associated with maintenance personnel who do not have appropriate access authorizations,	5	
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	Functional	intersects with	Access Non-System Related Maintenance	MNT-06.2	clearances or formal access approvals are appropriately mitigated. Mechanisms exist to ensure that non-escorted personnel performing non- IT maintenance activities in the physical proximity of IT systems have	5	
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	Functional	intersects with	Third-Party Management	TPM-01	required access authorizations. Mechanisms exist to facilitate the implementation of third-party management controls.	5	
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	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	
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	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	
03.07.06.A	Maintenance Personnel	Establish a process for maintenance personnel authorization.	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 (ESPA)	3	
03.07.06.B	Maintenance Personnel	Maintain a list of authorized maintenance organizations or personnel.	Functional	equal	Authorized Maintenance Personnel	MNT-06	Providers (ESPS). Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel.	10	
03.07.06.C	Maintenance Personnel	Verify that non-escorted personnel who perform maintenance on the system possess the required access authorizations.	Functional	intersects with	Authorized Maintenance Personnel	MNT-06	organizations or personnet. Mechanisms exist to maintain a current list of authorized maintenance organizations or personnet.	5	
03.07.06.C	Maintenance Personnel	Verify that non-escorted personnel who perform maintenance on the system	Functional	subset of	Maintenance Personnel Without Appropriate	MNT-06.1	Mechanisms exist to ensure the risks associated with maintenance personnel who do not have appropriate access authorizations,	10	
		possess the required access authorizations. Verify that non-escorted personnel who perform maintenance on the system			Access Non-System Related		clearances or formal access approvals are appropriately mitigated. Mechanisms exist to ensure that non-escorted personnel performing non-		
03.07.06.C	Maintenance Personnel	possess the required access authorizations. Designate organizational personnel with required access authorizations and	Functional	intersects with	Maintenance Competency	MNT-06.2	IT maintenance activities in the physical proximity of IT systems have required access authorizations.	5	
03.07.06.D		technical competence to supervise the maintenance activities of personnel who do not possess the required access authorizations.	Functional	intersects with	Requirements for Security-Related Positions	HRS-03.2	Mechanisms exist to ensure that all security-related positions are staffed by qualified individuals who have the necessary skill set.	8	
03.07.06.D	Maintenance Personnel	Designate organizational personnel with required access authorizations and technical competence to supervise the maintenance activities of personnel who do not possess the required access authorizations.	Functional	intersects with	Authorized Maintenance Personnel	MNT-06	Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel.	8	
03.07.06.D	Maintenance Personnel	Designate organizational personnel with required access authorizations and technical competence to supervise the maintenance activities of personnel who do not possess the required access authorizations.	Functional	intersects with	Maintenance Personnel Without Appropriate Access	MNT-06.1	Mechanisms exist to ensure the risks associated with maintenance personnel who do not have appropriate access authorizations, clearances or formal access approvals are appropriately mitigated.	8	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Data Stewardship	DCH-01.1	Mechanisms exist to ensure data stewardship is assigned, documented and communicated.	5	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	5	
03.08.01	Media Storage	Physically control and securely store system media that contain Cl.	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	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	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	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	5	
03.08.01	Media Storage	Physically control and securely store system media that contain Cl.	Functional	intersects with	Media Storage	DCH-06	Mechanisms exist to: (I) 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	5	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Physically Secure All	DCH-06.1	approved equipment, techniques and procedures. Mechanisms exist to physically secure all media that contains sensitive	5	
03.08.01	Media Storage	Physically control and securely store system media that contain Cl.	Functional	intersects with	Media Making Sensitive Data	DCH-06.4	information. Mechanisms exist to ensure sensitive/regulated data is rendered human	5	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Unreadable In Storage Physical & Environmental Protections	PES-01	unreadable anywhere sensitive/regulated data is stored. Mechanisms exist to facilitate the operation of physical and environmental protection controls.	3	
03.08.01	Media Storage	Physically control and securely store system media that contain Cl.	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	3	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Role-Based Physical Access	PES-02.1	accessible). Physical access control mechanisms exist to authorize physical access to facilities based on the position or role of the individual.	3	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	to facilities based on the position or role of the individual. Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for	8	
03.08.01	Media Storage	Physically control and securely store system media that contain CI.	Functional	intersects with	Working in Secure Areas	PES-04.1	offices, rooms and facilities. Physical security mechanisms exist to allow only authorized personnel	8	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	Functional	intersects with	Sensitive / Regulated	DCH-01.2	access to secure areas. Mechanisms exist to protect sensitive/regulated data wherever it is	5	
03.08.02	Media Access	Restrict access to Ci on system media to authorized personnel or roles.	Functional	intersects with	Data Protection Defining Access Authorizations for Sensitive/Regulated Data	DCH-01.4	stored. Mechanisms exist to explicitly define authorizations for specific individuals and/or roles for logical and /or physical access to sensitive/regulated data.	5	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	Functional	subset of	Media Access	DCH-03	Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	10	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	3	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	Functional	intersects with	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	3	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	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).	3	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	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. Mechanisms exist to identify systems, equipment and respective	3	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.	3	
03.08.02	Media Access	Restrict access to CI on system media to authorized personnel or roles.	Functional	intersects with	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	3	
03.08.03	Media Sanitization	Sanitize system media that contain Cl prior to disposal, release out of organizational control, or release for reuse.	Functional	intersects with	Secure Disposal, Destruction or Re-Use of Equipment	AST-09	Mechanisms exist to securely dispose of, destroy or repurpose system components using organization-defined techniques and methods to prevent information being recovered from these components.	8	
03.08.03	Media Sanitization	Sanitize system media that contain CI prior to disposal, release out of organizational control, or release for reuse.	Functional	intersects with	Physical Media Disposal	DCH-08	Mechanisms exist to securely dispose of media when it is no longer required, using formal procedures.	8	
. —		Sanitize system media that contain CI prior to disposal, release out of	Functional	intersects with	System Media	DCH-09	Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity of the	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	Notes (optional)
03.08.03	Media Sanitization	Sanitize system media that contain CI prior to disposal, release out of	Functional	intersects with	Information Disposal	DCH-21	Mechanisms exist to securely dispose of, destroy or erase information.	(optional) 8	
03.08.04	Media Marking	organizational control, or release for reuse. Mark system media that contain CI to indicate distribution limitations, handling caveats, and applicable CI markings.	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	8	
03.08.04	Media Marking	Mark system media that contain CI to indicate distribution limitations, handling caveats, and applicable CI markings.	Functional	intersects with	Media Marking	DCH-04	requirements. Mechanisms exist to mark media in accordance with data protection requirements so that personnel are alerted to distribution limitations, handling caveats and applicable security requirements.	8	
03.08.05	Media Transport	N/A Protect and control system media that contain CI during transport outside of		no relationship	N/A		N/A Mechanisms exist to ensure data stewardship is assigned, documented	N/A	No requirements to map to.
03.08.05.A	Media Transport	controlled areas. Protect and control system media that contain CI during transport outside of	Functional	intersects with	Data Stewardship Sensitive / Regulated	DCH-01.1	and communicated. Mechanisms exist to protect sensitive/regulated data wherever it is	5	
03.08.05.A 03.08.05.A	Media Transport Media Transport	controlled areas. Protect and control system media that contain CI during transport outside of	Functional	intersects with	Data Protection Media Transportation	DCH-01.2 DCH-07	Mechanisms exist to protect sensitive regulated data wherever it is stored. Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security	8	
		controlled areas. Protect and control system media that contain CI during transport outside of					measures. Mechanisms exist to identify custodians throughout the transport of	_	
03.08.05.A	Media Transport	controlled areas.	Functional	intersects with	Custodians	DCH-07.1	digital or non-digital media. Cryptographic mechanisms exist to protect the confidentiality and	8	
03.08.05.A	Media Transport	Protect and control system media that contain CI during transport outside of controlled areas. Maintain accountability of system media that contain CI during transport	Functional	intersects with	Encrypting Data In Storage Media	DCH-07.2	integrity of information stored on digital media during transport outside of controlled areas. Mechanisms exist to protect and control digital and non-digital media	5	
03.08.05.B	Media Transport	outside of controlled areas.	Functional	intersects with	Media Transportation	DCH-07	during transport outside of controlled areas using appropriate security measures.	5	
03.08.05.B	Media Transport	Maintain accountability of system media that contain CI during transport outside of controlled areas.	Functional	intersects with	Custodians	DCH-07.1	Mechanisms exist to identify custodians throughout the transport of digital or non-digital media.	5	
03.08.05.C	Media Transport	Document activities associated with the transport of system media that contain CI.	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	8	
03.08.06	Not Allocated	Withdrawn by NIST.	Functional	no relationship	N/A		event of a data loss incident. N/A	N/A	No requirements to map to.
03.08.07	Media Use	N/A Restrict or prohibit the use of [Assignment: organization-defined types of	Functional	no relationship	N/A System Hardening	N/A	N/A Mechanisms exist to develop, document and maintain secure baseline	N/A	No requirements to map to.
03.08.07.A	Media Use	system media]. Restrict or prohibit the use of [Assignment: organization-defined types of	Functional	subset of	Through Baseline Configurations	CFG-02	configurations for technology platforms that are consistent with industry- accepted system hardening standards. Mechanisms exist to restrict the use of types of digital media on systems	10	
03.08.07.A	Media Use	Restrict or prohibit the use of [Assignment, organization-defined types of system media]. Restrict or prohibit the use of [Assignment; organization-defined types of	Functional	subset of	Media Use Removable Media	DCH-10	or system components. Mechanisms exist to restrict removable media in accordance with data	10	
03.08.07.A	Media Use	system media].	Functional	intersects with	Security	DCH-12	handling and acceptable usage parameters.	3	
03.08.07.B	Media Use	Prohibit the use of removable system media without an identifiable owner.	Functional	equal	Prohibit Use Without Owner	DCH-10.2	Mechanisms exist to prohibit the use of portable storage devices in organizational information systems when such devices have no identifiable owner.	10	
03.08.08	Not Allocated System Backup –	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.08.09	Cryptographic Protection	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.08.09.A	System Backup – Cryptographic Protection	Protect the confidentiality of backup information.	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).	3	
03.08.09.A	System Backup – Cryptographic Protection	Protect the confidentiality of backup information.	Functional	intersects with	Cryptographic Protection	BCD-11.4	Cryptographic mechanisms exist to prevent the unauthorized disclosure and/or modification of backup information.	8	
03.08.09.B	System Backup – Cryptographic Protection	Implement cryptographic mechanisms to prevent the unauthorized disclosure of CI at backup storage locations.	Functional	equal	Cryptographic Protection	BCD-11.4	Cryptographic mechanisms exist to prevent the unauthorized disclosure and/or modification of backup information.	10	
03.09.01	Personnel Screening	N/A	Functional		N/A	N/A	N/A Mechanisms exist to manage personnel security risk by assigning a risk	N/A	No requirements to map to.
03.09.01.A	Personnel Screening	Screen individuals prior to authorizing access to the system.	Functional	intersects with	Position Categorization	HRS-02	designation to all positions and establishing screening criteria for individuals filling those positions. Mechanisms exist to manage personnel security risk by screening	8	
03.09.01.A 03.09.01.A	Personnel Screening Personnel Screening	Screen individuals prior to authorizing access to the system. Screen individuals prior to authorizing access to the system.	Functional	subset of intersects with	Personnel Screening Roles With Special	HRS-04 HRS-04.1	individuals prior to authorizing access. Mechanisms exist to ensure that individuals accessing a system that stores, transmits or processes information requiring special protection	10	
03.09.01.B	Personnel Screening	Rescreen individuals in accordance with [Assignment: organization-defined	Functional	intersects with	Protection Measures Position Categorization	HRS-02	stores, ransmis or processes information requiring special procedures satisfy organization-defined personnel screening criteria. Mechanisms exist to manage personnel security risk by assigning a risk designation to all positions and establishing screening criteria for	8	
03.09.01.B	Personnel Screening	conditions requiring rescreening]. Rescreen individuals in accordance with [Assignment: organization-defined	Functional	intersects with	Roles With Special	HRS-04.1	individuals filling those positions. Mechanisms exist to ensure that individuals accessing a system that	8	
U3.U9.U1.B		conditions requiring rescreening].	Pulictional	intersects with	Protection Measures	HK3-04.1	stores, transmits or processes information requiring special protection satisfy organization-defined personnel screening criteria.	۰	
03.09.02	Personnel Termination and Transfer	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.09.02.A	Personnel Termination and Transfer	When individual employment is terminated:	Functional	subset of	Personnel Transfer	HRS-08	Mechanisms exist to adjust logical and physical access authorizations to systems and facilities upon personnel reassignment or transfer, in a timely manner.	10	
03.09.02.A	Personnel Termination and Transfer	When individual employment is terminated:	Functional	subset of	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	10	
03.09.02.A.01	Personnel Termination	Disable system access within [Assignment: organization-defined time period],	Functional	intersects with	High-Risk Terminations	HRS-09.2	Mechanisms exist to expedite the process of removing "high risk" individual's access to systems and applications upon termination, as	5	
03.09.02.A.01	Personnel Termination and Transfer	Disable system access within [Assignment: organization-defined time period],	Functional	intersects with	Automated Employment Status Notifications	HRS-09.4	determined by management. Automated mechanisms exist to notify Identity and Access Management (IAM) personnel or roles upon termination of an individual employment or	3	
03.09.02.A.01	Personnel Termination and Transfer	Disable system access within [Assignment: organization-defined time period],	Functional	intersects with	User Provisioning & De- Provisioning	IAC-07	contract. Mechanisms exist to utilize a formal user registration and de-registration process that governs the assignment of access rights.	5	
03.09.02.A.01	Personnel Termination and Transfer Personnel Termination	Disable system access within [Assignment: organization-defined time period], Terminate or revoke authenticators and credentials associated with the	Functional	equal	Termination of Employment	IAC-07.2	Mechanisms exist to revoke user access rights in a timely manner, upon termination of employment or contract. Mechanisms exist to expedite the process of removing "high risk"	10	
03.09.02.A.02	and Transfer Personnel Termination	individual, and Terminate or revoke authenticators and credentials associated with the	Functional	intersects with	High-Risk Terminations Automated Employment	HRS-09.2	individual's access to systems and applications upon termination, as determined by management. Automated mechanisms exist to notify Identity and Access Management	5	
03.09.02.A.02	and Transfer	individual, and	Functional	intersects with	Status Notifications	HRS-09.4	(IAM) personnel or roles upon termination of an individual employment or contract.	3	
03.09.02.A.02	Personnel Termination and Transfer	Terminate or revoke authenticators and credentials associated with the individual, and	Functional	intersects with	User Provisioning & De- Provisioning	IAC-07	Mechanisms exist to utilize a formal user registration and de-registration process that governs the assignment of access rights.	5	
03.09.02.A.02	Personnel Termination and Transfer	Terminate or revoke authenticators and credentials associated with the individual, and	Functional	intersects with	Termination of Employment	IAC-07.2	Mechanisms exist to revoke user access rights in a timely manner, upon termination of employment or contract. Mechanisms exist to ensure asset ownership responsibilities are	5	
03.09.02.A.03	Personnel Termination and Transfer	Retrieve security-related system property.	Functional	intersects with	Asset Ownership Assignment	AST-03	assigned, tracked and managed at a team, individual, or responsible organization level to establish a common understanding of requirements for asset protection.	5	
03.09.02.A.03	Personnel Termination and Transfer	Retrieve security-related system property.	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	
03.09.02.A.03	Personnel Termination and Transfer	Retrieve security-related system property.	Functional	subset of	Return of Assets	AST-10	Mechanisms exist to ensure that employees and third-party users return all organizational assets in their possession upon termination of employment, contract or agreement.	10	
03.09.02.A.03	Personnel Termination and Transfer	Retrieve security-related system property.	Functional	intersects with	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	5	
03.09.02.A.03	Personnel Termination and Transfer	Retrieve security-related system property.	Functional	intersects with	Asset Collection	HRS-09.1	Mechanisms exist to retrieve organization-owned assets upon termination of an individual's employment.	5	
03.09.02.B		When individuals are reassigned or transferred to other positions in the organization:	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.09.02.B.01	Personnel Termination and Transfer	Review and confirm the ongoing operational need for current logical and physical access authorizations to the system and facility, and	Functional	intersects with	Personnel Transfer	HRS-08	Mechanisms exist to adjust logical and physical access authorizations to systems and facilities upon personnel reassignment or transfer, in a timely manner.	5	
-	Personnel Termination	Review and confirm the ongoing operational need for current logical and	Functional	intersects with	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	5	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
03.09.02.B.01	Personnel Termination and Transfer	Review and confirm the ongoing operational need for current logical and physical access authorizations to the system and facility, and	Functional	intersects with	High-Risk Terminations	HRS-09.2	Mechanisms exist to expedite the process of removing "high risk" individual's access to systems and applications upon termination, as determined by management.	(optional)	
03.09.02.B.02	Personnel Termination and Transfer	Modify access authorization to correspond with any changes in operational need.	Functional	intersects with	Change of Roles & Duties	IAC-07.1	Mechanisms exist to revoke user access rights following changes in personnel roles and duties, if no longer necessary or permitted.	5	Was 3.9.2.b.3
03.09.02.B.02	Personnel Termination and Transfer	Modify access authorization to correspond with any changes in operational need.	Functional	intersects with	Access Enforcement	IAC-20	Mechanisms exist to enforce Logical Access Control (LAC) permissions that conform to the principle of "least privilege."	5	
03.10.01	Physical Access Authorizations	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.10.01.A	Physical Access Authorizations	Develop, approve, and maintain a list of individuals with authorized access to the facility where the system resides.	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.	8	
03.10.01.A	Physical Access Authorizations	Develop, approve, and maintain a list of individuals with authorized access to the facility where the system resides.	Functional	intersects with	Access To Sensitive / Regulated Data	IAC-20.1	Mechanisms exist to limit access to sensitive/regulated data to only those individuals whose job requires such access.	8	
03.10.01.A	Physical Access Authorizations	Develop, approve, and maintain a list of individuals with authorized access to the facility where the system resides.	Functional	intersects with	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	3	
03.10.01.A	Physical Access Authorizations	Develop, approve, and maintain a list of individuals with authorized access to the facility where the system resides.	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	
03.10.01.B	Physical Access Authorizations	Issue authorization credentials for facility 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	
03.10.01.B	Physical Access Authorizations	Issue authorization credentials for facility access.	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	
03.10.01.C	Physical Access Authorizations	Review the facility access list [Assignment: organization-defined frequency].	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	3	
03.10.01.C	Physical Access Authorizations	Review the facility access list [Assignment: organization-defined frequency].	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	
03.10.01.D	Physical Access Authorizations	Remove individuals from the facility access list when access is no longer required.	Functional	intersects with	Periodic Review of Account Privileges	IAC-17	Mechanisms exist to periodically-review the privileges assigned to individuals and service accounts to validate the need for such privileges and reassign or remove unnecessary privileges, as necessary.	3	
03.10.01.D	Physical Access Authorizations	Remove individuals from the facility access list when access is no longer required.	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).	8	
03.10.01.D	Physical Access Authorizations	Remove individuals from the facility access list when access is no longer required.	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.	3	
03.10.02	Monitoring Physical Access	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.10.02.A	Monitoring Physical Access	Monitor physical access to the facility where the system resides to detect and respond to physical security incidents.	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).	8	
03.10.02.A	Monitoring Physical Access	Monitor physical access to the facility where the system resides to detect and respond to physical security incidents.	Functional	intersects with	Controlled Ingress & Egress Points	PES-03.1	Physical access control mechanisms exist to limit and monitor physical access through controlled ingress and egress points.	5	
03.10.02.A	Monitoring Physical Access	Monitor physical access to the facility where the system resides to detect and respond to physical security incidents.	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.	8	
03.10.02.A	Monitoring Physical Access	Monitor physical access to the facility where the system resides to detect and respond to physical security incidents.	Functional	subset of	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	10	
03.10.02.A	Monitoring Physical Access	Monitor physical access to the facility where the system resides to detect and respond to physical security incidents.	Functional	intersects with	Intrusion Alarms / Surveillance Equipment Monitoring Physical	PES-05.1	Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment. Facility security mechanisms exist to monitor physical access to critical	5	
03.10.02.A	Monitoring Physical Access	Monitor physical access to the facility where the system resides to detect and respond to physical security incidents.	Functional	intersects with	Access To Information Systems	PES-05.2	information systems or sensitive/regulated data, in addition to the physical access monitoring of the facility.	3	
03.10.02.B	Monitoring Physical Access	Review physical access logs [Assignment: organization-defined frequency] and upon occurrence of [Assignment: organization-defined events or potential indicators of events].	Functional	subset of	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	10	
03.10.02.B	Monitoring Physical Access	Review physical access logs [Assignment: organization-defined frequency] and upon occurrence of [Assignment: organization-defined events or potential indicators of events].	Functional	intersects with	Intrusion Alarms / Surveillance Equipment	PES-05.1	Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment.	5	
03.10.02.B	Monitoring Physical Access	Review physical access logs [Assignment: organization-defined frequency] and upon occurrence of [Assignment: organization-defined events or potential indicators of events].	Functional	intersects with	Monitoring Physical Access To Information Systems	PES-05.2	Facility security mechanisms exist to monitor physical access to critical information systems or sensitive/regulated data, in addition to the physical access monitoring of the facility.	5	
03.10.02.B	Monitoring Physical Access	Review physical access logs [Assignment: organization-defined frequency] and upon occurrence of [Assignment: organization-defined events or potential indicators of events].	Functional	intersects with	Visitor Control	PES-06	Physical access control mechanisms exist to identify, authorize and monitor visitors before allowing access to the facility (other than areas designated as publicly accessible).	5	
03.10.02.B	Monitoring Physical Access	Review physical access logs [Assignment: organization-defined frequency] and upon occurrence of [Assignment: organization-defined events or potential indicators of events].	Functional	intersects with	Visitor Control	PES-06.1	Physical access control mechanisms exist to identify, authorize and monitor visitors before allowing access to the facility (other than areas	5	
03.10.03 03.10.04	Not Allocated Not Allocated	Withdrawn by NIST.	Functional Functional	no relationship	N/A N/A	N/A N/A	designated as publicly accessible). N/A N/A N/A	N/A N/A	No requirements to map to.
03.10.05	Not Allocated	Withdrawn by NIST. Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to. No requirements to map to.
03.10.06 03.10.06.A	Alternate Work Site Alternate Work Site	N/A Determine alternate work sites allowed for use by employees.	Functional	no relationship	N/A Work From Anywhere (WFA) - Telecommuting Security	N/A NET-14.5	NVA Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.	N/A 8	No requirements to map to.
03.10.06.A	Alternate Work Site	Determine alternate work sites allowed for use by employees.	Functional	equal	Alternate Work Site	PES-11	Physical security mechanisms exist to utilize appropriate management, operational and technical controls at alternate work sites.	10	
03.10.06.B	Alternate Work Site	Employ the following security requirements at alternate work sites: [Assignment: organization-defined security requirements].	Functional	intersects with	Work From Anywhere (WFA) - Telecommuting Security	NET-14.5	Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.	8	
03.10.06.B	Alternate Work Site	Employ the following security requirements at alternate work sites: [Assignment: organization-defined security requirements].	Functional	intersects with	Alternate Work Site	PES-11	Physical security mechanisms exist to utilize appropriate management, operational and technical controls at alternate work sites.	8	
03.10.07	Physical Access Control	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.10.07.A	Physical Access Control	Enforce physical access authorizations at entry and exit points to the facility where the system resides by:	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
03.10.07.A	Physical Access Control	Enforce physical access authorizations at entry and exit points to the facility where the system resides by:	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	
03.10.07.A	Physical Access Control	Enforce physical access authorizations at entry and exit points to the facility where the system resides by:	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 entrylexit points) to facilities (excluding those areas within the facility officially designated as publicly accessible).	5	
03.10.07.A	Physical Access Control	Enforce physical access authorizations at entry and exit points to the facility where the system resides by:	Functional	intersects with	Controlled Ingress & Egress Points	PES-03.1	Physical access control mechanisms exist to limit and monitor physical access through controlled ingress and egress points.	8	
03.10.07.A.01	Physical Access Control	Verifying individual physical access authorizations before granting access to the facility and	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	
03.10.07.A.01	Physical Access Control	Verifying individual physical access authorizations before granting access to the facility and	Functional	intersects with	Access To Information Systems	PES-03.4	Physical access control mechanisms exist to enforce physical access to critical information systems or sensitive/regulated data, in addition to the physical access controls for the facility.	3	
03.10.07.A.01	Physical Access Control	Verifying individual physical access authorizations before granting access to the facility and	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for	3	

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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SCF#	Secure Controls Framework (SCF)	Strength of Relationship	Notes (optional)
03.10.07.A.01	Dhusiasi Assass Control	Verifying individual physical access authorizations before granting access to	Rationale	Relationship	Meding in Course Asses	PES-04.1	Control Description Physical security mechanisms exist to allow only authorized personnel	(optional)	
03.10.07.A.01	Physical Access Control	the facility and	Functional	intersects with	Working in Secure Areas	PES-04.1	access to secure areas. Physical access control mechanisms exist to enforce physical access	3	
03.10.07.A.02	Physical Access Control	Controlling ingress and egress with physical access control systems, devices, or guards.	Functional	subset of	Physical Access Control	PES-03	authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility	10	
	<u> </u>	Controlling ingress and egress with physical access control systems,	<u> </u>		Controlled Ingress &		officially designated as publicly accessible). Physical access control mechanisms exist to limit and monitor physical	_	
03.10.07.A.02	Physical Access Control	devices, or guards.	Functional	intersects with	Egress Points	PES-03.1	access through controlled ingress and egress points. Physical access control mechanisms exist to enforce physical access to	8	
03.10.07.A.02	Physical Access Control	Controlling ingress and egress with physical access control systems, devices, or guards.	Functional	intersects with	Access To Information Systems	PES-03.4	critical information systems or sensitive/regulated data, in addition to the physical access controls for the facility.	3	
		Controlling ingress and egress with physical access control systems,			Physical Security of		Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that		
03.10.07.A.02	Physical Access Control	devices, or guards.	Functional	intersects with	Offices, Rooms & Facilities	PES-04	appropriate physical access controls are designed and implemented for offices, rooms and facilities.	3	
03.10.07.A.02	Physical Access Control	Controlling ingress and egress with physical access control systems, devices, or guards.	Functional	intersects with	Working in Secure Areas	PES-04.1	Physical security mechanisms exist to allow only authorized personnel access to secure areas.	3	
03.10.07.B	Physical Access Control	Maintain physical access audit logs for entry or exit points.	Functional	equal	Physical Access Logs	PES-03.3	Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.	10	
03.10.07.C	Physical Access Control	Escort visitors, and control visitor activity.	Functional	subset of	Visitor Control	PES-06	Physical access control mechanisms exist to identify, authorize and monitor visitors before allowing access to the facility (other than areas	10	
03.10.07.0	Physical Access Collifor	Lacort visitors, and control visitor activity.	Tunctionat	aubaet of	VISITOI CONTOC	1 23-00	designated as publicly accessible). Physical access control mechanisms exist to easily distinguish between	10	
03.10.07.C	Physical Access Control	Escort visitors, and control visitor activity.	Functional	intersects with	Distinguish Visitors from On-Site Personnel	PES-06.1	onsite personnel and visitors, especially in areas where	5	
					II		sensitive/regulated data is accessible. Physical access control mechanisms exist to requires at least one (1)		
03.10.07.C	Physical Access Control	Escort visitors, and control visitor activity.	Functional	intersects with	Identification Requirement	PES-06.2	form of government-issued or organization-issued photo identification to authenticate individuals before they can gain access to the facility.	5	
					Restrict Unescorted		Physical access control mechanisms exist to restrict unescorted access		
03.10.07.C	Physical Access Control	Escort visitors, and control visitor activity.	Functional	intersects with	Access	PES-06.3	to facilities to personnel with required security clearances, formal access authorizations and validate the need for access.	8	
03.10.07.C	Physical Access Control	Escort visitors, and control visitor activity.	Functional	intersects with	Visitor Access Revocation	PES-06.6	Mechanisms exist to ensure visitor badges, or other issued identification, are surrendered before visitors leave the facility or are deactivated at a	5	
	-				Nevocation		pre-determined time/date of expiration. Physical access control mechanisms exist to enforce physical access		
03.10.07.D	Physical Access Control	Secure keys, combinations, and other physical access devices.	Functional	subset of	Physical Access Control	PES-03	authorizations for all physical access points (including designated entry/exit points) to facilities (excluding those areas within the facility	10	
-	+						officially designated as publicly accessible). Mechanisms exist to identify systems, equipment and respective		
03.10.07.D	Physical Access Control	Secure keys, combinations, and other physical access devices.	Functional	intersects with	Physical Security of Offices, Rooms &	PES-04	operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for	3	
					Facilities		offices, rooms and facilities. Physical security mechanisms exist to allow only authorized personnel		
03.10.07.D	Physical Access Control	Secure keys, combinations, and other physical access devices.	Functional	intersects with	Working in Secure Areas	PES-04.1	access to secure areas. Physical security mechanisms exist to allow only audionzed personner access to secure areas.	3	
03.10.07.E	Physical Access Control	Control physical access to output devices to prevent unauthorized	Functional	intersects with	Equipment Siting &	PES-12	the facility to minimize potential damage from physical and	5	
		individuals from obtaining access to CI.			Protection		environmental hazards and to minimize the opportunity for unauthorized access.		
03.10.07.E	Physical Access Control	Control physical access to output devices to prevent unauthorized individuals from obtaining access to Cl.	Functional	intersects with	Access Control for Output Devices	PES-12.2	Physical security mechanisms exist to restrict access to printers and other system output devices to prevent unauthorized individuals from	5	
03.10.08	Access Control for	Control physical access to system distribution and transmission lines within	Functional	intersects with	Supporting Utilities	PES-07	obtaining the output. Facility security mechanisms exist to protect power equipment and	5	
	Transmission	organizational facilities.					power cabling for the system from damage and destruction. Physical security mechanisms exist to locate system components within	_	
03.10.08		Control physical access to system distribution and transmission lines within organizational facilities.	Functional	intersects with	Equipment Siting & Protection	PES-12	the facility to minimize potential damage from physical and environmental hazards and to minimize the opportunity for unauthorized	5	
	Access Control for	Control physical access to system distribution and transmission lines within			Transmission Medium		access. Physical security mechanisms exist to protect power and		
03.10.08	Transmission	organizational facilities.	Functional	intersects with	Security	PES-12.1	telecommunications cabling carrying data or supporting information services from interception, interference or damage.	5	
03.11.01	Risk Assessment	N/A	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to govern Supply Chain Risk Management (SCRM)	N/A	No requirements to map to.
03.11.01.A	Risk Assessment	Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional	intersects with	Prohibited Equipment & Services	AST-17	sanctions that require the removal and prohibition of certain technology services and/or equipment that are designated as supply chain threats	3	
		Assess the risk (including supply chain risk) of unauthorized disclosure			Risk Management		by a statutory or regulatory body. Mechanisms exist to facilitate the implementation of strategic,		
03.11.01.A	Risk Assessment	resulting from the processing, storage, or transmission of Cl.	Functional	subset of	Program	RSK-01	operational and tactical risk management controls. Mechanisms exist to identify:	10	
03.11.01.A							(1) Assumptions affecting risk assessments, risk response and risk		
	Risk Assessment	Assess the risk (including supply chain risk) of unauthorized disclosure	Functional	intersects with	Risk Framing	RSK-01.1	monitoring; (2) Constraints affecting risk assessments, risk response and risk	8	
	Risk Assessment	Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional	intersects with	Risk Framing	RSK-01.1	monitoring: (2) Constraints affecting risk assessments, risk response and risk monitoring; (3) The organizational risk tolerance; and	8	
	Risk Assessment		Functional	intersects with	Risk Framing	RSK-01.1	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	
	Risk Assessment	resulting from the processing, storage, or transmission of CI.	Functional	intersects with		RSK-01.1	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that:	8	
03.11.01.A	Risk Assessment Risk Assessment		Functional	intersects with	Risk Framing Risk-Based Security Categorization	RSK-01.1	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. 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	8	
03.11.01.A		resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.			Risk-Based Security Categorization		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. 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 categorization results (including supporting rationale) in the security categorization decision is reviewed and approved by the asset owners.		
03.11.01.A 03.11.01.A		resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.			Risk-Based Security		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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he security categorization results (including supporting rationale) in the security plan for systems; and (2) Ensure the security plan for systems; and (2) Ensure the security relation decision is reviewed and approved by the asset owns. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions.		
	Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure	Functional	intersects with	Risk-Based Security Categorization	RSK-02	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he security categorization results (including supporting rationale) in the security plan for systems; and (2) Ensure the security categorization results (including supporting rationale) in the security categorization decision is reviewed and approved by the asset owner. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external.	5	
03.11.01.A 03.11.01.A	Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure	Functional Functional	intersects with intersects with intersects with	Risk-Based Security Categorization Impact-Level Prioritization	RSK-02 RSK-02.1	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he security categorization results (including supporting rationale) in the security plan for systems; and (2) Ensure the security categorization results (including supporting rationale) in the security categorization decision is reviewed and approved by the asset owner. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external. Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use,	5 3 5	
03.11.01.A	Risk Assessment Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional Functional	intersects with	Risk-Based Security Categorization Impact-Level Prioritization Risk Identification	RSK-02 RSK-02.1 RSK-03	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he 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. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external. 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	
03.11.01.A 03.11.01.A	Risk Assessment Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional Functional	intersects with intersects with intersects with	Risk-Based Security Categorization Impact-Level Prioritization Risk Identification	RSK-02 RSK-02.1 RSK-03	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he 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. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external. 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	5 3 5	
03.11.01.A 03.11.01.A 03.11.01.A	Risk Assessment Risk Assessment Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional Functional Functional	intersects with intersects with intersects with intersects with	Risk-Based Security Categorization Impact-Level Prioritization Risk Identification	RSK-02 RSK-02.1 RSK-03	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he 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 owns. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external. 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. Mechanisms and statio dientify and assign a risk ranking to newly	5 3 5	
03.11.01.A 03.11.01.A 03.11.01.A	Risk Assessment Risk Assessment Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional Functional Functional	intersects with intersects with intersects with intersects with	Risk-Based Security Categorization Impact-Level Prioritization Risk Identification	RSK-02 RSK-02.1 RSK-03	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he 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. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data. Mechanisms exist to identify and assign a risk ranking to newly discovered security vulnerabilities that is based on industry-recognized practices.	5 3 5	
03.11.01 A 03.11.01 A 03.11.01 A	Risk Assessment Risk Assessment Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional Functional Functional Functional	intersects with intersects with intersects with intersects with intersects with intersects with	Risk-Based Security Categorization Impact-Level Prioritization Risk Identification Risk Ranking Supply Chain Risk	RSK-02 RSK-02.1 RSK-03 RSK-04	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he security categorization results (including supporting rationale) in the security plan for systems; and (2) Ensure 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. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external. Mechanisms exist to conduct recurring assessments of risk that include the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data. Mechanisms exist to develop a plan for Supply Chain Risk Management (SCRN) associated with the development, acquisition, maintenance and disposal of systems, system components and services, including documenting selected mitigating actions and monitoring performance	5 8 8	
03.11.01A 03.11.01A 03.11.01A	Risk Assessment Risk Assessment Risk Assessment Risk Assessment	resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI. Assess the risk (including supply chain risk) of unauthorized disclosure resulting from the processing, storage, or transmission of CI.	Functional Functional Functional Functional	intersects with intersects with intersects with intersects with intersects with intersects with	Risk-Based Security Categorization Impact-Level Prioritization Risk Identification Risk Assessment Risk Ranking Supply Chain Risk Management (SCRM) Plan Supply Chain Risk	RSK-02 RSK-02.1 RSK-03 RSK-04	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. Mechanisms exist to categorize systems and data in accordance with applicable laws, regulations and contractual obligations that: (1) Document he 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. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions. Mechanisms exist to identify and document risks, both internal and external. Mechanisms exist to conduct recurring assessments of risk that include the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data. 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 8 8	
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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
03.11.02.A	Vulnerability Monitoring and Scanning	Monitor and scan the system for vulnerabilities [Assignment: organization-defined frequency] and when new vulnerabilities affecting the system are identified.	Functional	intersects with	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.	3	
03.11.02.A	Vulnerability Monitoring and Scanning	Monitor and scan the system for vulnerabilities [Assignment: organization- defined frequency] and when new vulnerabilities affecting the system are identified.	Functional	intersects with	External Threat Intelligence Feeds Feeds	THR-03	Nechanisms was: Mechanisms 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.	8	
03.11.02.A	Vulnerability Monitoring and Scanning	Monitor and scan the system for vulnerabilities [Assignment: organization- defined frequency] and when new vulnerabilities affecting the system are identified.	Functional	subset of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
03.11.02.A	Vulnerability Monitoring and Scanning	Monitor and scan the system for vulnerabilities [Assignment: organization- defined frequency] and when new vulnerabilities affecting the system are identified.	Functional	intersects with	Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface management activities.	5	
03.11.02.A	Vulnerability Monitoring and Scanning	Monitor and scan the system for vulnerabilities [Assignment: organization- defined frequency] and when new vulnerabilities affecting the system are identified.	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.	8	
03.11.02.A	Vulnerability Monitoring and Scanning	Monitor and scan the system for vulnerabilities [Assignment: organization- defined frequency] and when new vulnerabilities affecting the system are identified.	Functional	intersects with	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5	
03.11.02.B	Vulnerability Monitoring and Scanning	Remediate system vulnerabilities within [Assignment: organization-defined response times].	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	8	
03.11.02.B	Vulnerability Monitoring and Scanning	Remediate system vulnerabilities within [Assignment: organization-defined response times].	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	8	
03.11.02.B	Vulnerability Monitoring and Scanning	Remediate system vulnerabilities within [Assignment: organization-defined response times].	Functional	intersects with	Compensating Countermeasures	RSK-06.2	has been performed. Mechanisms exist to identify and implement compensating countermeasures to reduce risk and exposure to threats.	3	
03.11.02.B	Vulnerability Monitoring and Scanning	response times]. Remediate system vulnerabilities within [Assignment: organization-defined response times].	Functional	subset of	Vulnerability Remediation Process	VPM-02	countermeasures to reduce risk and exposure to threats. Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	10	
03.11.02.B	Vulnerability Monitoring		Functional	intersects with	Continuous Vulnerability	VPM-04	Mechanisms exist to address new threats and vulnerabilities on an	8	
	and Scanning Vulnerability Monitoring	response times]. Remediate system vulnerabilities within [Assignment: organization-defined			Remediation Activities Software & Firmware		ongoing basis and ensure assets are protected against known attacks. Mechanisms exist to conduct software patching for all deployed		
03.11.02.B	and Scanning	response times].	Functional	intersects with	Patching	VPM-05	operating systems, applications and firmware.	8	
03.11.02.C	Vulnerability Monitoring and Scanning	Update system vulnerabilities to be scanned [Assignment: organization- defined frequency] and when new vulnerabilities are identified and reported.	Functional	equal	Update Tool Capability	VPM-06.1	Mechanisms exist to update vulnerability scanning tools.	10	
03.11.03	Not Allocated	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.11.04	Risk Response	Respond to findings from security assessments, monitoring, and audits. Assess the security requirements for the system and its environment of	Functional	subset 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.	10	
03.12.01	Security Assessment	peration [Assignment: organization-defined frequency] to determine if the requirements have been satisfied. Assess the security requirements for the system and its environment of	Functional	subset of	Statutory, Regulatory & Contractual Compliance Cybersecurity & Data	CPL-01	Mechanisms exist to facilitate the identification and implementation of relevant statutory, regulatory and contractual controls.	10	
03.12.01	Security Assessment	operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	Functional	intersects with	Protection Controls Oversight	CPL-02	Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership. Mechanisms exist to implement an internal audit function that is capable	8	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	Functional	intersects with	Internal Audit Function	CPL-02.1	of providing senior organization management with insights into the appropriateness of the organization's technology and information governance processes.	3	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	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.	8	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	Functional	subset of	Information Assurance (IA) Operations	IAO-01	Mechanisms exist to facilitate the implementation of cybersecurity & data privacy assessment and authorization controls.	10	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	Functional	intersects with	Assessment Boundaries	IAO-01.1	Mechanisms exist to establish the scope of assessments by defining the assessment boundary, according to people, processes and technology that directly or indirectly impact the confidentiality, integrity, availability and safety of the data and systems under review.	5	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment organization-defined frequency] to determine if the requirements have been satisfied.	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.	8	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	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.	8	
03.12.01	Security Assessment	Assess the security requirements for the system and its environment of operation [Assignment: organization-defined frequency] to determine if the requirements have been satisfied.	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 serifiable 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.	8	
03.12.02	Plan of Action and Milestones	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.12.02.A	Plan of Action and Milestones	Develop a plan of action and milestones for the system:	Functional	subset of	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.	10	
03.12.02.A.01	Plan of Action and Milestones	To document the planned remediation actions to correct weaknesses or deficiencies noted during security assessments and	Functional	intersects with	Non-Compliance Oversight	CPL-01.1	Mechanisms exist to document and review instances of non-compliance with statutory, regulatory and/or contractual obligations to develop appropriate risk mitigation actions.	3	
03.12.02.A.01	Plan of Action and Milestones	To document the planned remediation actions to correct weaknesses or deficiencies noted during security assessments and	Functional	subset of	Plan of Action & Milestones (POA&M)	IAO-05	sepropries is imagenized and a Plan of Action and Milestones (POAAM), 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.	10	
03.12.02.A.01	Plan of Action and Milestones	To document the planned remediation actions to correct weaknesses or deficiencies noted during security assessments and	Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	3	
03.12.02.A.02	Plan of Action and Milestones	To reduce or eliminate known system vulnerabilities.	Functional	subset of	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.	10	
03.12.02.A.02	Plan of Action and Milestones	To reduce or eliminate known system vulnerabilities.	Functional	intersects with	Risk Register	RSK-04.1	Mechanisms exist to maintain a risk register that facilitates monitoring and reporting of risks.	3	
03.12.02.A.02	Plan of Action and Milestones	To reduce or eliminate known system vulnerabilities.	Functional	intersects with	Risk Remediation	RSK-06	Mechanisms exist to remediate risks to an acceptable level.	5	
03.12.02.A.02	Plan of Action and	To reduce or eliminate known system vulnerabilities.	Functional	subset of	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	10	
03.12.02.A.02	Milestones Plan of Action and Milestones	To reduce or eliminate known system vulnerabilities.	Functional	intersects with	Remediation Process Software & Firmware Patching	VPM-05	tracked and remediated. Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	3	
03.12.02.B	Plan of Action and Milestones	Update the existing plan of action and milestones based on the findings from:	Functional	subset of	Plan of Action & Milestones (POA&M)	IAO-05	Operating systems, approximates and minimates. 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.	10	



	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)
03.12.02.B.01	Plan of Action and Milestones	Security assessments,	Functional	subset of	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.	10	
03.12.02.B.02	Plan of Action and Milestones	Audits or reviews, and	Functional	subset of	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.	10	
03.12.02.B.03	Plan of Action and Milestones	Continuous monitoring activities.	Functional	subset of	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.	10	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	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	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	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	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	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	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	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	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	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	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	Functional	intersects with	Measures of Performance	GOV-05	Mechanisms exist to develop, report and monitor cybersecurity & data privacy program measures of performance.	5	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	Functional	intersects with	Continuous Monitoring	MON-01	Mechanisms exist to facilitate the implementation of enterprise-wide monitoring controls.	5	
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that	Functional	intersects with	Technology Development	TDA-01	Mechanisms exist to facilitate the implementation of tailored development and acquisition strategies, contract tools and procurement	5	
	Continuous Monitoring	includes ongoing monitoring and security assessments. Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	Functional	intersects with	& Acquisition Product Management	TDA-01.1	methods to meet unique business needs. 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: (SDLC) to:	3	
		includes digoling monitoring and security assessments.					(2) Enhance security and resiliency capabilities; (3) Correct security deficiencies; and (4) Conform with applicable statutory, regulatory and/or contractual obligations.		
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	Mechanisms exist to require system developers/integrators consult with cybersecurity & date 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	5	
							(3) Document the results of the security testing/evaluation and flaw		
		Develop and implement a system level continuous monitoring strategy that			Continuous Monitoring		(3) Document the results of the security testing/evaluation and flaw remediation processes. Mechanisms exist to require the developers of systems, system		
03.12.03	Continuous Monitoring	Develop and implement a system-level continuous monitoring strategy that includes ongoing monitoring and security assessments.	Functional	intersects with	Continuous Monitoring Plan	TDA-09.1	remediation processes.	5	
03.12.04			Functional Functional Functional	intersects with no relationship no relationship	_	TDA-09.1 N/A N/A	remediation processes. Mechanisms exist to require the developers of systems, system components or services to produce a plan for the continuous monitoring	5 N/A N/A	No requirements to map to. No requirements to map to.
03.12.04 03.12.05	Not Allocated	includes ongoing monitoring and security assessments. Withdrawn by NIST.	Functional	no relationship	Plan N/A	N/A	remediation processes. 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. NA	N/A	
03.12.04 03.12.05 03.12.05.A	Not Allocated Information Exchange	includes ongoing monitoring and security assessments. Withdrawn by NIST. N/A Approve and manage the exchange of CI between the system and other systems using [Selection (one or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; other types of agreements]. Approve and manage the exchange of CI between the system and other systems using [Selection (one or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; they used of agreements; they used of agreements; they used they are agreements; they used of agreements; they used they agreements; they used they used they agreements; they used they agreements; they used they agreements.	Functional Functional	no relationship no relationship	Plan N/A N/A	N/A N/A	remediation processes. Mechanisms sixt to require the developers of systems, system components or services to produce a plan for the continuous monitoring of cybersecurity & data privacy control effectiveness. NA NA Mechanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g.,	N/A N/A	
03.12.04 03.12.05 03.12.05 A	Not Allocated Information Exchange Information Exchange	includes ongoing monitoring and security assessments. Withdrawn by NIST. N/A Approve and manage the exchange of CI between the system and other systems using [Selection (nee or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or genement; service-level agreements; user agreements; non-disclosure agreements of CI between the system and other systems using [Selection (one or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or agreement; scher types of agreements; user agreements; non-disclosure agreement; other types of agreements; user agreements; agreements; other types of agreements; user agreements; user agreements; or on-disclosure agreement; one or more): interconnection security agreement; memoranda of understanding or agreement; service-level agreements; user agreements; undersidanding or agreements; service-level agreements; user agreements; one-disclosure agreements; o	Functional Functional Functional	no relationship no relationship intersects with	Plan N/A N/A N/A Transfer Authorizations	N/A N/A DCH-14.2	remediation processes. Mechanisms sixt to require the developers of systems, system components or services to produce a plan for the continuous monitoring of systemsecurity & data privacy control effectiveness. N/A N/A Machanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring said data. Mechanisms exist to leverages a data-specific Access Control List (ACL) or Interconnection Security Agreements (SAs) to generate a logical map.	N/A N/A	
03.12.04 03.12.05 03.12.05 A 03.12.05 A	Not Allocated Information Exchange Information Exchange Information Exchange	includes ongoing monitoring and security assessments. Withdrawn by NIST. N/A Approve and manage the exchange of CI between the system and other systems using [Selection (neo or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; other types of agreements; non-disclosure agreements; other types of agreements; memoranda of understanding or agreement; service-level agreements; user agreements; agreements; information exchange eacurity agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; other types of agreements; considerations and other systems using [Selection (one or more): interconnection security agreements; memoranda of understanding or agreement; service-level agreements; memoranda of understanding or agreement; service-level agreements; user agreements; and agreements; other types of agreements. Approve and manage the exchange of CI between the system and other systems using [Selection (one or more): interconnection security agreements; one-disclosure agreements; one-dis	Functional Functional Functional Functional	no relationship no relationship intersects with	Plan N/A N/A N/A Transfer Authorizations Data Access Mapping	N/A N/A DCH-14.2 DCH-14.3	remediation processes. 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. NA. NA. Mechanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring said data. Mechanisms exist to leverages a data-specific Access Control List (ACL) or Interconnection Security Agreements (ISAs) to generate a logical map of the parties with whom sensitive/regulated data is shared. Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access. Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access.	N/A N/A 8	
03.12.04 03.12.05 03.12.05.A 03.12.05.A 03.12.05.A	Not Allocated Information Exchange Information Exchange Information Exchange Information Exchange	includes ongoing monitoring and security assessments. Withdrawm by NIST. N/A Approve and manage the exchange of CI between the system and other systems using [Selection (noe or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; other types of agreements; user agreements; non-disclosure agreements; other types of agreements; user agreements; agreements; offermation exchange of CI between the system and other systems using [Selection (noe or more): interconnection security agreements; greements; other types of agreements; memoranda of understanding or agreements; service-level agreements;. agreements; and other systems using [Selection (noe or more): interconnection security agreements; or agreements; one-disclosure agreements; offer-level agreements;, user agreements; agreements; or agreements; one-disclosure agreements; one-disclosure agreements; other types of agreements; user agreements; one-disclosure agreements; other types of agreements; agreements; or agreements	Functional Functional Functional Functional Functional	no relationship no relationship intersects with intersects with intersects with intersects with	Plan N/A N/A N/A Transfer Authorizations Data Access Mapping Access Agreements Confidentiality	N/A N/A DCH-14.2 DCH-14.3	remediation processes. 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. N/A Machanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring said data. Mechanisms exist to leverages a data-specific Access Control List (ACL) or Interconnection Security Agreements (SAs) to generate a logical map of the parties with whom sensitive/regulated data is shared. Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access. Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access.	N/A N/A 8 8	
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03.12.04 03.12.05 03.12.05.A 03.12.05.A 03.12.05.A 03.12.05.A 03.12.05.A 03.12.05.B 03.12.05.B	Not Allocated Information Exchange	includes ongoing monitoring and security assessments. Withdrawn by NIST. N/A Approve and manage the exchange of CI between the system and other systems using [Selection (near or more): interconnection security agreements; information exchange security agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; of the two the system and other systems using [Selection (one or more): interconnection security agreements; information exchange security agreements; user agreements; one-disclosure agreements; other types of agreements; memoranda of understanding or agreement; service-level agreements; user agreements; non-disclosure agreements; other types of agreements; memoranda of understanding or agreement; service-level agreements; user agreements; agreements; other types of agreements; memoranda of understanding or agreement; service-level agreements; user agreements; one-disclosure agreements; other types of agreements; user agreements; one-disclosure agreements; one-	Functional	no relationship no relationship no relationship no relationship no relationship intersects with subset of no relationship intersects with	Plan N/A N/A N/A N/A Transfer Authorizations Data Access Mapping Access Agreements Confidentiality Agreements System Interconnections Internal System Connections Internal System Connections Internal System Connections Internal System Connections Prevention Systems (IDS AIPS) Inbound & Outbound	N/A N/A DCH-14.2 DCH-14.3 HRS-06 HRS-06.1 NET-05 NET-05.2 NET-05.2 NET-05.2 NET-05.2 NET-05.2	remediation processes. Mechanisms acid to require the developers of systems, system components or services to produce a plan for the continuous monitoring of cybersecurity & data privacy control effectiveness. NA Mechanisms exist to verify that individuals or systems transferring data between interconnecting systems have the requisite authorizations (e.g., write permissions or privileges) prior to transferring shad data. Mechanisms exist to leverages a data-specific Access Control List (ACL) or Interconnection Security Agreements (ISA) to generate a logical map of the parties with whome sensitive/regulated data is shared. Mechanisms exist to require internal and third-party users to sign appropriate access agreements prior to being granted access. Mechanisms exist to require Non-Disclosure Agreements (INDAs) or similar confidentiality agreements that reflect the needs to protect data and operational details, or both employees and third-parties. Mechanisms exist to authorize connections from systems to other systems using interconnection Security Agreements (ISAs), or similar methods, that document, for each interconnection, the interface characteristics, cybersecurity & data privacy requirements and the nature of the information communicated. Mechanisms exist to authorize connections from systems to other systems using interconnections of systems and documenting, for each internal connection, the interface characteristics, cybersecurity & data privacy requirements and the nature of the information communicated. Mechanisms exist to control internal system connections through authorizing internal connections of systems and documenting, for each internal connection, the interface characteristics, security requirements and the nature of the information communicated. Mechanisms exist to control internal system connections through authorizing internal connections of systems and documenting, for each internal connection, the interface duracteristics, security requirements and the nature of the information co	N/A N/A 8 8 8 8 3 8 8 8	No requirements to map to.
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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
03.13.01.A	Boundary Protection	Monitor and control communications at external managed interfaces to the system and key internal managed interfaces within the system.	Functional	intersects with	Deny Traffic by Default & Allow Traffic by	NET-04.1	Mechanisms exist to configure firewall and router configurations to deny network traffic by default and allow network traffic by exception (e.g.,	8	
03.13.01.A	Boundary Protection	Monitor and control communications at external managed interfaces to the system and key internal managed interfaces within the system.	Functional	intersects with	Exception Network Intrusion Detection / Prevention Systems (NIDS / NIPS)	NET-08	deny all, permit by exception). Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the network.	8	
03.13.01.B	Boundary Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	Functional	subset of	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.	10	
03.13.01.B	Boundary Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	Functional	intersects with	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.	5	
03.13.01.B	Boundary Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	Functional	intersects with	Separate Subnet for Connecting to Different Security Domains	NET-03.8	Mechanisms exist to implement separate network addresses (e.g., different subnets) to connect to systems in different security domains.	3	
03.13.01.B	Boundary Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	Functional	subset of	Network Segmentation (macrosegementation) (macrosegementation)	NET-06	Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network resources.	10	
03.13.01.B	Boundary Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	Functional	intersects with	Sensitive / Regulated Data Enclave (Secure Zone)	NET-06.3	Mechanisms exist to implement segmentation controls to restrict inbound and outbound connectivity for sensitive / regulated data enclaves (secure zones).	8	
03.13.01.B	Boundary Protection	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks. Connect to external systems only through managed interfaces that consist of	Functional	intersects with	DMZ Networks	NET-08.1	Mechanisms exist to monitor De-Militarized Zone (DMZ) network segments to separate untrusted networks from trusted networks. Mechanisms exist to monitor and control communications at the	8	
03.13.01.C	Boundary Protection	boundary protection devices arranged in accordance with an organizational security architecture.	Functional	intersects with	Boundary Protection	NET-03	external network boundary and at key internal boundaries within the network.	5	
03.13.01.C	Boundary Protection	Connect to external systems only through managed interfaces that consist of boundary protection devices arranged in accordance with an organizational security architecture.	Functional	intersects with	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	Mechanisms exist to design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal systems.	5	
03.13.01.C	Boundary Protection	Connect to external systems only through managed interfaces that consist of boundary protection devices arranged in accordance with an organizational security architecture.	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.	3	
03.13.01.C	Boundary Protection	Connect to external systems only through managed interfaces that consist of boundary protection devices arranged in accordance with an organizational security architecture.	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.	8	
03.13.02 03.13.03	Not Allocated Not Allocated	Withdrawn by NIST. Withdrawn by NIST.	Functional Functional	no relationship no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.13.04	Information in Shared System Resources	Prevent unauthorized and unintended information transfer via shared system resources.	Functional	equal	Information In Shared Resources	SEA-05	Mechanisms exist to prevent unauthorized and unintended information transfer via shared system resources.	10	
03.13.05	Not Allocated Network Communications – Deny by Default – Allow by	Withdrawn by NIST. Deny network communications traffic by default, and allow network communications traffic by exception.	Functional	no relationship	N/A Deny Traffic by Default & Allow Traffic by Exception	N/A NET-04.1	N/A Mechanisms exist to configure firewall and router configurations to deny network traffic by default and allow network traffic by exception (e.g., demy all, permit by exception).	N/A 10	No requirements to map to.
03.13.07	Exception Not Allocated	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.13.08	Transmission and Storage Confidentiality	Implement cryptographic mechanisms to prevent the unauthorized disclosure of CI during transmission and while in storage.	Functional	subset of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
03.13.08	Transmission and Storage Confidentiality	Implement cryptographic mechanisms to prevent the unauthorized disclosure of Cl during transmission and while in storage.	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	
03.13.08	Transmission and Storage Confidentiality Transmission and	Implement cryptographic mechanisms to prevent the unauthorized disclosure of CI during transmission and while in storage.	Functional	intersects with	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
03.13.08	Storage Confidentiality Transmission and	Implement cryptographic mechanisms to prevent the unauthorized disclosure of CI during transmission and while in storage. Implement cryptographic mechanisms to prevent the unauthorized	Functional	intersects with	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest. Cryptographic mechanisms exist to protect the confidentiality and	5	
03.13.08	Storage Confidentiality	disclosure of CI during transmission and while in storage. Terminate the network connection associated with a communications	Functional	intersects with	Storage Media	CRY-05.1	integrity of sensitive/regulated data residing on storage media.	5	
03.13.09	Network Disconnect	session at the end of the session or after [Assignment: organization-defined time period] of inactivity.	Functional	equal	Network Connection Termination	NET-07	Mechanisms exist to terminate network connections at the end of a session or after an organization-defined time period of inactivity.	10	
03.13.10	Cryptographic Key Establishment and Management	Establish and manage cryptographic keys in the system in accordance with the following key management requirements: [Assignment: organization- defined requirements for key generation, distribution, storage, access, and destruction].	Functional	intersects with	Public Key Infrastructure (PKI)	CRY-08	Mechanisms exist to securely implement an internal Public Key Infrastructure (PKI) infrastructure or obtain PKI services from a reputable PKI service provider.	8	
03.13.10	Cryptographic Key Establishment and Management	Establish and manage cryptographic keys in the system in accordance with the following key management requirements: [Assignment: organization- defined requirements for key generation, distribution, storage, access, and destruction].	Functional	subset of	Cryptographic Key Management	CRY-09	Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.	10	
03.13.10	Cryptographic Key Establishment and Management	Establish and manage cryptographic keys in the system in accordance with the following key management requirements: [Assignment: organization- defined requirements for key generation, distribution, storage, access, and destruction].	Functional	intersects with	Cryptographic Key Loss or Change	CRY-09.3	Mechanisms exist to ensure the availability of information in the event of the loss of cryptographic keys by individual users.	8	
03.13.10	Cryptographic Key Establishment and Management	Establish and manage cryptographic keys in the system in accordance with the following key management requirements: [Assignment: organization- defined requirements for key generation, distribution, storage, access, and destruction].	Functional	intersects with	Control & Distribution of Cryptographic Keys	CRY-09.4	Mechanisms exist to facilitate the secure distribution of symmetric and asymmetric cryptographic keys using industry recognized key management technology and processes.	8	
							Mechanisms exist to allow baseline controls to be specialized or customized by applying a defined set of tailoring actions that are specific to:		
03.13.11	Cryptographic Protection	Implement the following types of cryptography to protect the confidentiality of CI: [Assignment: organization-defined types of cryptography].	Functional	intersects with	Baseline Tailoring	CFG-02.9	to: (1) Mission / business functions; (2) Operational environment; (3) Specific threats or vulnerabilities; or (4) Other conditions or situations that could affect mission / business success.	3	
03.13.11	Cryptographic Protection	Implement the following types of cryptography to protect the confidentiality of CI: [Assignment: organization-defined types of cryptography].	Functional	subset of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
03.13.11	Cryptographic Protection	Implement the following types of cryptography to protect the confidentiality of Cl: [Assignment: organization-defined types of cryptography].	Functional	intersects with	Cryptographic Cipher Suites and Protocols Inventory	CRY-01.5	Mechanisms exist to identify, document and review deployed cryptographic cipher suites and protocols to proactively respond to industry trends regarding the continued viability of utilized cryptographic cipher suites and protocols.	5	
03.13.12	Collaborative Computing Devices and Applications	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.13.12.A	Collaborative Computing Devices and Applications	Prohibit the remote activation of collaborative computing devices and applications with the following exceptions: [Assignment: organization-defined exceptions where remote activation is to be allowed].	Functional	subset of	Collaborative Computing Devices	END-14	Mechanisms exist to unplug or prohibit the remote activation of collaborative computing devices with the following exceptions: (1) Networked whiteboards; (2) Video teleconference cameras; and	10	
03.13.12.B	Collaborative Computing Devices and Applications	Provide an explicit indication of use to users physically present at the devices.	Functional	subset of	System Hardening Through Baseline Configurations	CFG-02	(3) Teleconference microphones. Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry- accepted system hardening standards.	10	
03.13.12.B	Collaborative Computing Devices and Applications	Provide an explicit indication of use to users physically present at the devices.		equal	Explicitly Indication Of Use	END-14.6	Mechanisms exist to configure collaborative computing devices to provide physically-present individuals with an explicit indication of use.	10	
03.13.13	Mobile Code	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.13.13.A	Mobile Code	Define acceptable mobile code and mobile code technologies.	Functional	intersects with	Explicitly Allow / Deny Applications	CFG-03.3	Mechanisms exist to explicitly allow (allowlist / whitelist) or block (denylist / blacklist) applications to control software that is authorized to execute on systems.	8	
03.13.13.A	Mobile Code	Define acceptable mobile code and mobile code technologies.	Functional	subset of	Mobile Code	END-10	Mechanisms exist to address mobile code / operating system- independent applications.	10	
03.13.13.B	Mobile Code	Authorize, monitor, and control the use of mobile code.	Functional	subset of	Explicitly Allow / Deny Applications	CFG-03.3	Mechanisms exist to explicitly allow (allowlist / whitelist) or block (denylist / blacklist) applications to control software that is authorized to execute on systems.	10	
03.13.13.B	Mobile Code	Authorize, monitor, and control the use of mobile code.	Functional	intersects with	Software Usage Restrictions	CFG-04	Mechanisms exist to enforce software usage restrictions to comply with applicable contract agreements and copyright laws.	3	
03.13.13.B	Mobile Code	Authorize, monitor, and control the use of mobile code.	Functional	intersects with	Open Source Software	CFG-04.1	Mechanisms exist to establish parameters for the secure use of open source software.	3	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	Notes (optional)
03.13.13.B	Mobile Code	Authorize, monitor, and control the use of mobile code.	Functional	intersects with	User-Installed Software	CFG-05	Mechanisms exist to restrict the ability of non-privileged users to install	(optional)	
03.13.13.B	Mobile Code	Authorize, monitor, and control the use of mobile code.	Functional	subset of	Mobile Code	END-10	unauthorized software. Mechanisms exist to address mobile code / operating system-	10	
03.13.14	Not Allocated	Withdrawn by NIST.	Functional	no relationship	N/A	N/A	independent applications. N/A	N/A	No requirements to map to.
03.13.15	Session Authenticity Not Allocated	Protect the authenticity of communications sessions. Withdrawn by NIST	Functional	subset of	Session Integrity	NET-09	Mechanisms exist to protect the authenticity and integrity of communications sessions.	10	
03.13.16 03.14.01	Not Allocated Flaw Remediation	Withdrawn by NIST. N/A	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	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 ontoed during the assessment of the security controls and to reduce or eliminate known vulnerabilities.	5	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	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. Mechanisms exist to require system developers/integrators consult with	8	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	Functional	intersects with	Cybersecurity & Data Privacy Testing Throughout Development	TDA-09	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.	8	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	Functional	subset of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	Functional	intersects with	Attack Surface Scope	VPM-01.1	Mechanisms exist to define and manage the scope for its attack surface	5	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	Functional	intersects with	Vulnerability	VPM-02	management activities. Mechanisms exist to ensure that vulnerabilities are properly identified,	8	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	Functional	intersects with	Remediation Process Continuous Vulnerability	VPM-04	tracked and remediated. Mechanisms exist to address new threats and vulnerabilities on an	8	
03.14.01.A	Flaw Remediation	Identify, report, and correct system flaws.	Functional	intersects with	Remediation Activities Software & Firmware	VPM-05	ongoing basis and ensure assets are protected against known attacks. Mechanisms exist to conduct software patching for all deployed	8	
		Install security-relevant software and firmware updates within [Assignment:			Patching Continuous Vulnerability		operating systems, applications and firmware. Mechanisms exist to address new threats and vulnerabilities on an		
03.14.01.B	Flaw Remediation	organization-defined time period] of the release of the updates.	Functional	intersects with	Remediation Activities	VPM-04	ongoing basis and ensure assets are protected against known attacks.	8	
03.14.01.B	Flaw Remediation	Install security-relevant software and firmware updates within [Assignment: organization-defined time period] of the release of the updates.	Functional	intersects with	Software & Firmware Patching	VPM-05	Mechanisms exist to conduct software patching for all deployed operating systems, applications and firmware.	5	
03.14.02	Malicious Code Protection	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.14.02.A	Malicious Code Protection	Implement malicious code protection mechanisms at system entry and exit points to detect and eradicate malicious code.	Functional	subset of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
03.14.02.A	Malicious Code Protection	Implement malicious code protection mechanisms at system entry and exit points to detect and eradicate malicious code.	Functional	subset of	Centralized Management of Antimalware Technologies	END-04.3	Mechanisms exist to centrally-manage antimalware technologies.	10	
03.14.02.A	Malicious Code Protection	Implement malicious code protection mechanisms at system entry and exit points to detect and eradicate malicious code.	Functional	intersects with	Always On Protection	END-04.7	Mechanisms exist to ensure that anti-malware technologies are continuously running in real-time and cannot be disabled or altered by non-privileged users, unless specifically authorized by management on a case-by-case basis for a limited time period.	5	
03.14.02.B	Malicious Code Protection	Update malicious code protection mechanisms as new releases are available in accordance with configuration management policies and procedures.	Functional	equal	Automatic Antimalware Signature Updates	END-04.1	Mechanisms exist to automatically update antimalware technologies, including signature definitions.	10	
03.14.02.C	Malicious Code Protection	Configure malicious code protection mechanisms to:	Functional	intersects with	Malicious Code Protection (Anti- Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
03.14.02.C.01	Malicious Code Protection	Perform scans of the system [Assignment: organization-defined frequency] and real-time scans of files from external sources at endpoints or system entry and exit points as the files are downloaded, opened, or executed; and	Functional	intersects with	Malicious Code Protection (Anti- Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	8	
03.14.02.C.01	Malicious Code Protection	Perform scans of the system [Assignment: organization-defined frequency] and real-time scans of files from external sources at endpoints or system entry and exit points as the files are downloaded, opened, or executed; and	Functional	intersects with	Always On Protection	END-04.7	Mechanisms exist to ensure that anti-matware technologies are continuously running in real-time and cannot be disabled or altered by non-privileged users, unless specifically authorized by management on a case-by-case basis for a limited time period.	8	
03.14.02.C.02	Malicious Code Protection	Block malicious code, quarantine malicious code, or take other mitigation actions in response to malicious code detection.	Functional	intersects with	Malicious Code Protection (Anti-	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	8	
03.14.02.C.02	Malicious Code Protection	Block malicious code, quarantine malicious code, or take other mitigation actions in response to malicious code detection.	Functional	intersects with	Malware) Always On Protection	END-04.7	Mechanisms exist to ensure that anti-matware technologies are continuously running in real-time and cannot be disabled or altered by non-privileged users, unless specifically authorized by management on a case-by-case basis for a limited time period.	8	
03.14.03	Security Alerts, Advisories, and	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.14.03.A	Directives Security Alerts, Advisories, and Directives	Receive system security alerts, advisories, and directives from external organizations on an ongoing basis.	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	10	
03.14.03.A	Security Alerts, Advisories, and Directives	Receive system security alerts, advisories, and directives from external organizations on an ongoing basis.	Functional	intersects with	External Threat Intelligence Feeds Feeds	THR-03	recovery activities. Mechanisms exist to maintain situational awareness of vulnerabilities and evolving threats by leveraging the knowledge of attacker tactics, tachniques and procedures to facilitate the implementation of preventative and compensating controls.	5	
03.14.03.B	Security Alerts, Advisories, and	Generate and disseminate internal system security alerts, advisories, and directives, as necessary.	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	5	
03.14.03.B	Directives Security Alerts, Advisories, and Directives	Generate and disseminate internal system security alerts, advisories, and directives, as necessary.	Functional	intersects with	Impact-Level Prioritization	RSK-02.1	threats. Mechanisms exist to prioritize the impact level for systems, applications and/or services to prevent potential disruptions.	5	
03.14.03.B	Security Alerts, Advisories, and Directives	Generate and disseminate internal system security alerts, advisories, and directives, as necessary.	Functional	equal	Internal Threat Intelligence Feeds Feeds	THR-03.1	Mechanisms exist to utilize external threat intelligence feeds to generate and disseminate organization-specific security alerts, advisories and/or directives.	10	
03.14.04 03.14.05	Not Allocated Not Allocated	Withdrawn by NIST. Withdrawn by NIST.	Functional Functional	no relationship	N/A N/A	N/A N/A	N/A N/A	N/A N/A	No requirements to map to. No requirements to map to.
03.14.06	System Monitoring	N/A	Functional	no relationship	N/A	N/A	N/A Mchanisms exist to facilitate the implementation of enterprise-wide	N/A	No requirements to map to.
03.14.06.A 03.14.06.A.01	System Monitoring System Monitoring	Monitor the system to detect: Attacks and indicators of potential attacks and	Functional	subset of intersects with	Continuous Monitoring Host Intrusion Detection and Prevention Systems (HIDS / HIPS)	MON-01 END-07	monitoring controls. Mechanisms exist to utilize Host-based Intrusion Detection / Prevention Systems (HIDS) / HIPS), or similar technologies, to monitor for and protect against anomalous host activity, including lateral movement across the	8	
03.14.06.A.01	System Monitoring	Attacks and indicators of potential attacks and	Functional	intersects with	System Generated Alerts	MON-01.4	network Mechanisms exist to generate, monitor, correlate and respond to alerts from physical, cybersecurity, data privacy and supply chain activities to achieve integrated situational awareness.	8	
03.14.06.A.01	System Monitoring	Attacks and indicators of potential attacks and	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC).	8	
03.14.06.A.01	System Monitoring	Attacks and indicators of potential attacks and	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.	8	
03.14.06.A.02	System Monitoring	Unauthorized connections.	Functional	intersects with	Host Intrusion Detection and Prevention Systems (HIDS / HIPS)	END-07	Mechanisms exist to utilize Host-based Intrusion Detection / Prevention Systems (HIDS / HIPS), or similar technologies, to monitor for and protect against anomalous host activity, including lateral movement across the network	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)
03.14.06.A.02	System Monitoring	Unauthorized connections.	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC).	8	
03.14.06.A.02	System Monitoring	Unauthorized connections.	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.	8	
03.14.06.B	System Monitoring	Identify unauthorized use of the system.	Functional	intersects with	Host Intrusion Detection and Prevention Systems (HIDS / HIPS)	END-07	Mechanisms exist to utilize Host-based Intrusion Detection / Prevention Systems (HIDS / HIPS), or similar technologies, to monitor for and protect against anomalous host activity, including lateral movement across the network	8	
03.14.06.B	System Monitoring	Identify unauthorized use of the system.	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.	8	
03.14.06.B	System Monitoring	Identify unauthorized use of the system.	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC).	8	
03.14.06.B	System Monitoring	Identify unauthorized use of the system.	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.	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	Functional	intersects with	Host Intrusion Detection and Prevention Systems (HIDS / HIPS)	END-07	Mechanisms exist to utilize Host-based Intrusion Detection / Prevention Systems (HIDS / HIPS), or similar technologies, to monitor for and protect against anomalous host activity, including lateral movement across the network	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	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.	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	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.	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	Functional	intersects with	Monitoring for Indicators of Compromise (IOC)	MON-11.3	Automated mechanisms exist to identify and alert on Indicators of Compromise (IoC).	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	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.	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	Functional	intersects with	Network Intrusion Detection / Prevention	NET-08	Mechanisms exist to employ Network Intrusion Detection / Prevention Systems (NIDS/NIPS) to detect and/or prevent intrusions into the	8	
03.14.06.C	System Monitoring	Monitor inbound and outbound communications traffic to detect unusual or unauthorized activities or conditions.	Functional	intersects with	Systems (NIDS / NIPS) DNS & Content Filtering	NET-18	network. 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	8	
03.14.07		Withdrawn by NIST. Manage and retain CI within the system and CI output from the system in	Functional	no relationship	N/A	N/A	prohibited Internet sites. N/A	N/A	No requirements to map to.
03.14.08	Information Management and Retention	accordance with applicable laws, Executive Orders, directives, regulations, policies, standards, guidelines, and operational requirements.	Functional	subset of	Media & Data Retention	DCH-18	Mechanisms exist to retain media and data in accordance with applicable statutory, regulatory and contractual obligations.	10	
03.15.01 03.15.01.A	Policy and Procedures Policy and Procedures	N/A Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for	Functional Functional	no relationship subset of	N/A Cybersecurity & Data Protection Governance	N/A GOV-01	N/A Mechanisms exist to facilitate the implementation of cybersecurity &	N/A 10	No requirements to map to.
03.15.01.A	Policy and Procedures	the protection of CI. Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for the protection of CI.	Functional	equal	Program Publishing Cybersecurity & Data Protection Documentation	GOV-02	data protection governance controls. Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	10	
03.15.01.A	Policy and Procedures	Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for	Functional	intersects with	Operationalizing Cybersecurity & Data	GOV-15	Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system,	8	
03.15.01.A	Policy and Procedures	the protection of CI. Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for	Functional	intersects with	Protection Practices Select Controls	GOV-15.1	application and/or service under their control. Mechanisms exist to compel data and/or process owners to select required cybersecurity & data privacy controls for each system,	8	
03.15.01.A	Policy and Procedures	the protection of CI. Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for	Functional	intersects with	Implement Controls	GOV-15.2	application and/or service under their control. Mechanisms exist to compel data and/or process owners to implement required cybersecurity & data privacy controls for each system,	8	
03.15.01.A	Policy and Procedures	the protection of CI. Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for the protection of CI.	Functional	intersects with	Assess Controls	GOV-15.3	application and/or service under their control. Mechanisms exist to compel data and/or process owners to assess if required cybersecurity & data privacy controls for each system, application and/or service under their control are implemented correctly	8	
03.15.01.A	Policy and Procedures	Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for	Functional	intersects with	Authorize Systems, Applications & Services	GOV-15.4	and are operating as intended. Mechanisms exist to compel data and/or process owners to obtain authorization for the production use of each system, application and/or	8	
03.15.01.A	Policy and Procedures	the protection of CI. Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for the protection of CI.	Functional	intersects with	Monitor Controls	GOV-15.5	service under their control. Mechanisms exist to compel data and/or process owners to monitor systems, applications and/or services under their control on an ongoing basis for applicable threats and risks, as well as to ensure cybersecurity	8	
03.15.01.A	Policy and Procedures	Develop, document, and disseminate to organizational personnel or roles the policies and procedures needed to satisfy the security requirements for	Functional	intersects with	Operations Security	OPS-01	& data privacy controls are operating as intended. Mechanisms exist to facilitate the implementation of operational	8	
03.15.01.A		the protection of CI. Develop, document, and disseminate to organizational personnel or roles	Functional	intersects with	Standardized Operating		security controls. Mechanisms exist to identify and document Standardized Operating Procedures (SOR), or similar documentation to applie the proper	8	
03.13.01.8	rolley and Procedures	the policies and procedures needed to satisfy the security requirements for the protection of CI.	Tunctional	intersects with	Procedures (SOP) Periodic Review &	013-01.1	Procedures (SOP), or similar documentation, to enable the proper execution of day-to-day / assigned tasks. Mechanisms exist dr preview the cybersecurity & data protection program,	0	
03.15.01.B	Policy and Procedures	Review and update policies and procedures [Assignment: organization-defined frequency].	Functional	subset of	Update of Cybersecurity & Data Protection Program	GOV-03	including policies, standards and procedures, at planned intervals or if significant changes occur to ensure their continuing suitability, adequacy and effectiveness.	10	
03.15.01.B 03.15.01.B	Policy and Procedures Policy and Procedures	Review and update policies and procedures [Assignment: organization- defined frequency]. Review and update policies and procedures [Assignment: organization- defined frequency].	Functional Functional	intersects with	Operations Security Service Delivery (Business Process Support)	OPS-01	Mechanisms exist to facilitate the implementation of operational security controls. Mechanisms exist to define supporting business processes and implement appropriate governance and service management to ensure appropriate planning, delivery and support of the organization's technology capabilities supporting business functions, workforce, and/or customers based on industry-resonized standards to achieve the specific goals of the process area.	3	
03.15.02 03.15.02.A	System Security Plan System Security Plan	N/A Develop a system security plan that:	Functional Functional	no relationship	N/A System Security & Privacy Plan (SSPP)	N/A IAO-03	NVA Mechanisms exist to generate System Security & Privacy Plans (SSPPe), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entitles, systems, applications and processes, providing a historical record of the data and its origins.	N/A 10	No requirements to map to.
03.15.02.A.01	System Security Plan	Defines the constituent system components;	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPe), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.A.02	System Security Plan	Identifies the information types processed, stored, and transmitted by the system;	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPe), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.A.03	System Security Plan	Describes specific threats to the system that are of concern to the organization;	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPa), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entitles, systems, applications and processes, providing a historical record of the data and its origins.	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)
03.15.02.A.03	System Security Plan	Describes specific threats to the system that are of concern to the organization:	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	3	
03.15.02.A.03	System Security Plan	Describes specific threats to the system that are of concern to the	Functional	intersects with	Threat Catalog	THR-09	technologies in use. Mechanisms exist to develop and keep current a catalog of applicable internal and external threats to the organization, both natural and	8	
03.15.02.A.04	System Security Plan	organization; Describes the operational environment for the system and any dependencies	Functional	intersects with	Control Applicability Boundary Graphical	AST-04.2	manmade. Mechanisms exist to ensure control applicability is appropriately- determined for systems, applications, services and third parties by	8	
		on or connections to other systems or system components; Describes the operational environment for the system and any dependencies			Representation		graphically representing applicable boundaries. Mechanisms exist to document and validate the scope of cybersecurity &		
03.15.02.A.04	System Security Plan	on or connections to other systems or system components;	Functional	intersects with	Compliance Scope	CPL-01.2	data privacy controls that are determined to meet statutory, regulatory and/or contractual compliance obligations.	8	
03.15.02.A.04	System Security Plan	Describes the operational environment for the system and any dependencies on or connections to other systems or system components;	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entitles, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.A.05	System Security Plan	Provides an overview of the security requirements for the system;	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.A.06	System Security Plan	Describes the safeguards in place or planned for meeting the security requirements;	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.A.07	System Security Plan	Identifies individuals that fulfill system roles and responsibilities; and	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.A.08	System Security Plan	Includes other relevant information necessary for the protection of CI.	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.B	System Security Plan	Review and update the system security plan [Assignment: organization-defined frequency].	Functional	subset of	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system, application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical record of the data and its origins.	10	
03.15.02.C	System Security Plan	Protect the system security plan from unauthorized disclosure.	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.	8	
03.15.02.C	System Security Plan	Protect the system security plan from unauthorized disclosure.	Functional	intersects with	Disclosure of Information	DCH-03.1	Mechanisms exist to restrict the disclosure of sensitive / regulated data to authorized parties with a need to know.	8	
03.15.03 03.15.03.A	Rules of Behavior Rules of Behavior	N/A Establish rules that describe the responsibilities and expected behavior for	Functional Functional	no relationship subset of	N/A Human Resources	N/A HRS-01	N/A Mechanisms exist to facilitate the implementation of personnel security	N/A 10	No requirements to map to.
03.15.03.A	Rules of Behavior	system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI.	Functional	intersects with	Security Management Terms of Employment	HRS-05	controls. Mechanisms exist to require all employees and contractors to apply cybersecurity & data privacy principles in their daily work.	8	
03.15.03.A	Rules of Behavior	Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI.	Functional	subset of	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.	10	
03.15.03.A	Rules of Behavior	Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI.	Functional	intersects with	Social Media & Social		Mechanisms exist to define rules of behavior that contain explicit		
03.15.03.A					Networking Restrictions	HRS-05.2	restrictions on the use of social media and networking sites, posting information on commercial websites and sharing account information.	8	
i contract of the contract of	Rules of Behavior	Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI.	Functional	intersects with	Use of Communications Technology	HRS-05.2 HRS-05.3	information on commercial websites and sharing account information. Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to	8	
03.15.03.A	Rules of Behavior	system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for	Functional Functional	intersects with	Use of Communications Technology Use of Critical		information on commercial websites and sharing account information. Mechanisms exist to establish usage restrictions and implementation		
03.15.03.A 03.15.03.A		system usage and protecting CI.			Use of Communications Technology	HRS-05.3	information on commercial websites and sharing account information. Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously.	8	
	Rules of Behavior	system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for	Functional	intersects with	Use of Communications Technology Use of Critical Technologies	HRS-05.3 HRS-05.4	information on commercial websites and sharing account information. Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously. Mechanisms exist to govern usage policies for critical technologies. Mechanisms exist to manage business risks associated with permitting	8	
03.15.03.A	Rules of Behavior	system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI.	Functional Functional	intersects with	Use of Communications Technology Use of Critical Technologies Use of Mobile Devices Defined Roles &	HRS-05.3 HRS-05.4 HRS-05.5	Information on commercial websites and sharing account information. Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously. Mechanisms exist to govern usage policies for critical technologies. Mechanisms exist to manage business risks associated with permitting mobile device access to organizational resources. Mechanisms exist to define cybersecurity roles & responsibilities for all	8 8	
03.15.03.A 03.15.03.B	Rules of Behavior Rules of Behavior Rules of Behavior	system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI. Establish rules that describe the responsibilities and expected behavior for system usage and protecting CI. Provide rules to individuals who require access to the system.	Functional Functional Functional	intersects with intersects with intersects with	Use of Communications Technology Use of Critical Technologies Use of Mobile Devices Defined Roles & Responsibilities	HRS-05.3 HRS-05.4 HRS-05.5 HRS-03	Information on commercial websites and sharing account information. Mechanisms exist to establish usage restrictions and implementation guidance for communications technologies based on the potential to cause damage to systems, if used maliciously. Mechanisms exist to govern usage policies for critical technologies. Mechanisms exist to manage business risks associated with permitting mobile device access to organizational resources. Mechanisms exist to define cybersecurity roles & responsibilities for all personnel. Mechanisms exist to define cybersecurity roles & responsibilities for all personnel.	8 8	
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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	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.	8	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	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.	8	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	Functional	intersects with	Minimum Viable Product (MVP) Security Requirements	TDA-02	Mechanisms exist to design, develop and produce products and/or services in such a way that risk-based technical and functional specifications ensure Minimum Viable Product (MPV) criteria establish an appropriate level of security and resiliency based on applicable risks and threats.	5	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	Functional	intersects with	Development Methods, Techniques & Processes	TDA-02.3	Mechanisms exist to require software developers to ensure that their software development processes employ industry-recognized secure practices for secure programming, engineering methods, quality control processes and validation techniques to minimize flawed and/or malformed software.	8	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: (Assignment: organization-defined systems security engineering principles).	Functional	intersects with	Pre-Established Secure Configurations	TDA-02.4	Mechanisms exist to ensure vendors / manufacturers: (1) Deliver the system, component, or service with a pre-established, secure configuration implemented; and (2) Use the pre-established, secure configuration as the default for any subsequent system, component, or service reinstallation or upgrade.	3	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	Functional	intersects with	Commercial Off-The- Shelf (COTS) Security Solutions	TDA-03	Mechanisms exist to utilize only Commercial Off-the-Shelf (COTS) security products.	3	
03.16.01	Security Engineering Principles Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles]. Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	Functional	intersects with	Developer Architecture & Design Secure Software Development Practices (SSDP)	TDA-05	Mechanisms exist to require the developers of systems, system components or services to produce a design specification and security architecture that that and supportive of the organization's security architecture which is established within and is an integrated part of the organization's enterprise architecture. (2) Accurately and completely describes the required security functionality and the allocation of security controls among physical and logical components; and organized who individual security functions, mechanisms and services work together to provide required security capabilities and a unified approach to protection. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).	5	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	8	
03.16.01	Security Engineering Principles	Apply the following systems security engineering principles to the development or modification of the system and system components: [Assignment: organization-defined systems security engineering principles].	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.	8	
03.16.02	Unsupported System Components	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.16.02.A	Unsupported System	Replace system components when support for the components is no longer	Functional	subset of	Technology Lifecycle	SEA-07.1	Mechanisms exist to manage the usable lifecycles of technology assets.	10	
03.16.02.A	Components Unsupported System Components	available from the developer, vendor, or manufacturer. Replace system components when support for the components is no longer available from the developer, vendor, or manufacturer.	Functional	equal	Management 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, wondor or manufacturer; and (2) Requiring justification and documented approval for the continued use of unsupported system components required to satisfy mission/business needs.	10	
03.16.02.B	Unsupported System	Provide options for risk mitigation or alternative sources for continued	Functional	intersects with	Predictable Failure	SEA-07	Mechanisms exist to determine the Mean Time to Failure (MTTF) for	3	
03.16.02.B	Components Unsupported System	support for unsupported components that cannot be replaced. Provide options for risk mitigation or alternative sources for continued	Functional	intersects with	Analysis Technology Lifecycle	SEA-07.1	system components in specific environments of operation. Mechanisms exist to manage the usable lifecycles of technology assets.	8	
03.16.02.B	Components Unsupported System	support for unsupported components that cannot be replaced. Provide options for risk mitigation or alternative sources for continued	Functional	equal	Management Alternate Sources for	TDA-17.1	Mechanisms exist to provide in-house support or contract external	10	
	Components	support for unsupported components that cannot be replaced.			Continued Support		providers for support with unsupported system components.		
03.16.03 03.16.03.A	External System Services External System Services	N/A Require the providers of external system services used for the processing, storage, or transmission of CI to comply with the following security requirements (Assignment: Organization-defined security requirements).	Functional	no relationship	N/A Third-Party Management	N/A TPM-01	N/A Mechanisms exist to facilitate the implementation of third-party management controls.	N/A 10	No requirements to map to.
03.16.03.A		Require the providers of external system services used for the processing, storage, or transmission of CI to comply with the following security requirements: [Assignment: organization-defined security requirements].	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.	8	
03.16.03.A	External System Services	Require the providers of external system services used for the processing, storage, or transmission of CI to comply with the following security requirements: [Assignment: organization-defined security requirements].	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.	8	
03.16.03.A	External System Services	Require the providers of external system services used for the processing, storage, or transmission of CI to comply with the following security requirements: [Assignment: organization-defined security requirements].	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	
03.16.03.A	External System Services	Require the providers of external system services used for the processing, storage, or transmission of CI to comply with the following security requirements: [Assignment: organization-defined security requirements].	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	
03.16.03.A	External System Services	Require the providers of external system services used for the processing, storage, or transmission of CI to comply with the following security requirements: [Assignment: organization-defined security requirements].	Functional	equal	Third-Party Attestation	TPM-05.8	Mechanisms exist to obtain an attestation from an independent Third- Party Assessment Organization (3PAO) that provides assurance of compliance with specified startutory, regulatory and contractual obligations for cybersecutify & data privacy controls, including any flow- down requirements to subcontractors.	10	
03.16.03.B	External System Services	Define and document user roles and responsibilities with regard to external system services, including shared responsibilities with external service providers. Define and document user roles and responsibilities with regard to external	Functional	intersects with	Defined Roles & Responsibilities	HRS-03	Mechanisms exist to define cybersecurity roles & responsibilities for all personnel. Mechanisms exist to govern third-party personnel by reviewing and	8	
03.16.03.B	External System Services	Define and document user roles and responsibilities with external service providers. Define and document user roles and responsibilities with external service providers.	Functional	intersects with	Third-Party Personnel Security	HRS-10	mechanisms exist to govern initio-party personner by reviewing and monitoring third-party cybersecurity & data privacy roles and responsibilities. Mechanisms exist to require contractual requirements for cybersecurity	8	
03.16.03.B	External System Services	system services, including shared responsibilities with external service providers. Define and document user roles and responsibilities with regard to external	Functional	intersects with	Third-Party Contract Requirements Contract Flow Down	TPM-05	& data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data. Mechanisms exist to ensure cybersecurity & data privacy requirements	5	
03.16.03.B	External System Services	system services, including shared responsibilities with external service providers.	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	are included in contracts that flow-down to applicable sub-contractors and suppliers.	5	
03.16.03.B	External System Services	Define and document user roles and responsibilities with regard to external system services, including shared responsibilities with external service providers.	Functional	equal	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).	10	
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	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	
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	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	



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)
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	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	5	
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	Functional	intersects with		TPM-05.5	and suppliers. Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments accurately reflect current business practices, compliance obligations, technologies and stakeholders.	8	
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	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	
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	Functional	intersects with	Third-Party Attestation	TPM-05.8	Mechanisms exist to obtain an attestation from an independent Third- Party Assessment Organization (3PAO) that provides assurance of conformity with specified statutory, regulatory and contractual obligations for cybersecurity & data privacy controls, including any flow- down requirements to contractors and subcontractors.	8	
03.16.03.C	External System Services	Implement processes, methods, and techniques to monitor security requirement compliance by external service providers on an ongoing basis.	Functional	subset of	Review of Third-Party Services	TPM-08	Mechanisms exist to monitor, regularly review and assess External Service Providers (ESPs) for compliance with established contractual	10	
03.17.01	Supply Chain Risk Management Plan	N/A	Functional	no relationship	N/A	N/A	requirements for cybersecurity & data privacy controls. N/A	N/A	No requirements to map to.
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Operationalizing Cybersecurity & Data Protection Practices	GOV-15	Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system, application and/or service under their control.	3	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Select Controls	GOV-15.1	Mechanisms exist to compet data and/or process owners to select required cybersecurity & data privacy controls for each system, application and/or service under their control.	3	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Implement Controls	GOV-15.2	Mechanisms exist to compet data and/or process owners to implement required cybersecurity & data privacy controls for each system, application and/or service under their control.	3	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Assess Controls	GOV-15.3	Mechanisms exist to compel data and/or process owners to assess if required cybersecurity & data privacy controls for each system, application and/or service under their control are implemented correctly and are operating as intended.	3	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Authorize Systems, Applications & Services	GOV-15.4	Mechanisms exist to compel data and/or process owners to obtain authorization for the production use of each system, application and/or service under their control.	3	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Monitor Controls	GOV-15.5	Mechanisms exist to compet data and/or process owners to monitor systems, applications and/or services under their control on an ongoing basis for applicable threats and risks, as well as to ensure cybersecurity & data privacy controls are operating as intended.	3	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	subset of	Risk Management Program	RSK-01	Mechanisms exist to facilitate the implementation of strategic, operational and tactical risk management controls.	10	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	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	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Supply Chain Risk Management (SCRM)	TPM-03	Mechanisms exist to: (I) 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	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	Functional	intersects with	Acquisition Strategies, Tools & Methods	TPM-03.1	Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	5	
03.17.01.A	Supply Chain Risk Management Plan	Develop a plan for managing supply chain risks associated with the research and development, design, manufacturing, acquisition, delivery, integration, operations, maintenance, and disposal of the system, system components, or system services.	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.	3	
03.17.01.B	Supply Chain Risk Management Plan	Review and update the supply chain risk management plan [Assignment: organization-defined frequency].	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	
03.17.01.C	Supply Chain Risk Management Plan	Protect the supply chain risk management plan from unauthorized disclosure.	Functional	intersects with	Sensitive / Regulated Data Protection	DCH-01.2	Mechanisms exist to protect sensitive/regulated data wherever it is stored.	8	
03.17.01.C	Supply Chain Risk Management Plan	Protect the supply chain risk management plan from unauthorized disclosure.	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.	8	
03.17.01.C	Supply Chain Risk Management Plan	Protect the supply chain risk management plan from unauthorized disclosure. Develop and implement acquisition strategies, contract tools, and	Functional	intersects with	Disclosure of Information	DCH-03.1	Mechanisms exist to restrict the disclosure of sensitive / regulated data to authorized parties with a need to know. Mechanisms exist to facilitate the implementation of tailored	8	
03.17.02	Acquisition Strategies, Tools, and Methods	procurement methods to identify, protect against, and mitigate supply chain risks.	Functional	subset of	Technology Development & Acquisition	TDA-01	development and acquisition strategies, contract tools and procurement methods to meet unique business needs.	10	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	Functional	equal	Acquisition Strategies, Tools & Methods	TPM-03.1	Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	10	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain	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	
03.17.02	Acquisition Strategies, Tools, and Methods	risks. Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain	Functional	intersects with	Third-Party Risk Assessments &	TPM-04.1	Mechanisms exist to conduct a risk assessment prior to the acquisition or outsourcing of technology-related services.	8	
03.17.02	Acquisition Strategies, Tools, and Methods	risks. Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	Functional	intersects with	Approvals 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	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	Functional	intersects with	Security Compromise Notification Agreements	TPM-05.1	Mechanisms exist to compel External Service Providers (ESPs) to provide notification of actual or potential compromises in the supply chain that can potentially affect or have adversely affected systems, applications and/or services that the organization utilizes.	3	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	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	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	Functional	intersects with	Third-Party Scope Review	TPM-05.5	and suppuers. Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consutted & Informed (RASCI) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments accurately reflect current business practices, compliance obligations, technologies and stakeholders.	5	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks	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	
03.17.02	Acquisition Strategies, Tools, and Methods	nsks. Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	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	



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)
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	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	
03.17.02	Acquisition Strategies, Tools, and Methods	Develop and implement acquisition strategies, contract tools, and procurement methods to identify, protect against, and mitigate supply chain risks.	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	
03.17.03	Supply Chain Requirements and Processes	N/A	Functional	no relationship	N/A	N/A	N/A	N/A	No requirements to map to.
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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.	8	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	Functional	intersects with	Acquisition Strategies, Tools & Methods	TPM-03.1	Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	3	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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.	3	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	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	
03.17.03.A	Supply Chain Requirements and Processes	Establish a process for identifying and addressing weaknesses or deficiencies in the supply chain elements and processes.	Functional	intersects with	Third-Party Scope Review	TPM-05.5	Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments ac	5	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	Functional	intersects with	Acquisition Strategies, Tools & Methods	TPM-03.1	Mechanisms exist to utilize tailored acquisition strategies, contract tools and procurement methods for the purchase of unique systems, system components or services.	5	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	Functional	subset of	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.	10	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	Functional	intersects with	Third-Party Scope Review	TPM-05.5	Mechanisms exist to perform recurring validation of the Responsible, Accountable, Supportive, Consulted & Informed (RASCI) matrix, or similar documentation, to ensure cybersecurity & data privacy control assignments ac	5	
03.17.03.B	Supply Chain Requirements and Processes	Enforce the following security requirements to protect against supply chain risks to the system, system components, or system services and to limit the harm or consequences from supply chain-related events: [Assignment: organization-defined security requirements].	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	

