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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: Published STRM URL:

NIST.SP.800-171A
https://csrc.nist.gov/pubs/sp/800/171/a/final
https://securecontrolsframework.com/content/strm/scf-strm-general-nist-800-171a.pdf

FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
3.1.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.1[a]2	N/A	authorized users are identified.	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	
3.1.1[b]	N/A	processes acting on behalf of authorized users are identified.	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	
3.1.1[c]	N/A	devices (including other systems) authorized to connect to the system are identified.	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	
3.1.1[d]	N/A	system access is limited to authorized users.	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	
3.1.1[e]	N/A	system access is limited to processes acting on behalf of authorized users.	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	
3.1.1[f]	N/A	system access is limited to authorized devices (including other systems).	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	
3.1.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.2[a]	N/A	the types of transactions and functions that authorized users are permitted to execute are defined	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	
3.1.2[b]	N/A	system access is limited to the defined types of transactions and functions for authorized users.	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	
3.1.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.3[a]	N/A	information flow control policies are defined.	Functional	Intersects With	Data Flow Enforcement – Access Control Lists	NET-04	Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly	5	
3.1.3[b]	N/A	methods and enforcement mechanisms for controlling the flow of CUI are defined.	Functional	Intersects With	(ACLs) Data Flow Enforcement – Access Control Lists	NET-04	restrict network traffic to only what is authorized. Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly	5	
3.1.3[c]	N/A	Besignated sources and destinations (e.g., networks, individuals, and devices) for CUI within systems and between interconnected systems	Functional	Intersects With	(ACLs) Media Access	DCH-03	restrict network traffic to only what is authorized. Mechanisms exist to control and restrict access to digital and non-digital media to authorized individuals.	5	
3.1.3[c]	N/A	are identified. Besignated sources and destinations (e.g., networks, individuals, and devices) for CUI within systems and between interconnected systems are identified.	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	
3.1.3[c]	N/A	Besignated sources and destinations (e.g., networks, individuals, and devices) for CUI within systems and between interconnected systems	Functional	Intersects With	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly	5	
3.1.3[d]	N/A	are identified. Buthorizations for controlling the flow of CUI are defined.	Functional	Intersects With	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	restrict network traffic to only what is authorized. Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.	5	
3.1.3[e]	N/A	Supproved authorizations for controlling the flow of CUI are enforced.	Functional	Intersects With	Data Flow Enforcement – Access Control Lists (ACLs)	NET-04	Mechanisms exist to implement and govern Access Control Lists (ACLs) to provide data flow enforcement that explicitly restrict network traffic to only what is authorized.	5	
3.1.4	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.4[a]	N/A	the duties of individuals requiring separation to reduce the risk of malevolent activity are defined.	Functional	Intersects With	Separation of Duties (SoD)	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.	7	
3.1.4[b]	N/A	organization-defined duties of individuals requiring separation are separated.	Functional	Intersects With	Separation of Duties (SoD)	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.	7	
3.1.4[c]	N/A	separate accounts for individuals whose duties and accesses must be separated to reduce the risk of malevolent activity or collusion are established	Functional	Intersects With	Separation of Duties (SoD)	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without collusion.	7	
3.1.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.5[a]	N/A	privileged accounts are identified.	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	
3.1.5[b]	N/A	access to privileged accounts is authorized in accordance with the principle of least privilege.	Functional	Intersects With	Least Privilege	IAC-21	Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational	5	
3.1.5[c]	N/A	security functions are identified.	Functional	Intersects With	Least Privilege	IAC-21	business functions. Mechanisms exist to utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational	5	
3.1.5[d]	N/A	access to security functions is authorized in accordance with the principle of least privilege.	Functional	Intersects With	Least Privilege	IAC-21	business functions. 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	
3.1.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.6[a]	N/A	nonsecurity functions are identified.	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	
3.1.6[b]	N/A	users are required to use non-privileged accounts or roles when accessing nonsecurity functions.	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	
3.1.7	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.7[a]	N/A	privileged functions are defined.	Functional	Intersects With	Prohibit Non-Privileged Users from Executing	IAC-21.5	Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabling, circumventing or altering implemented security safeguards /	5	
3.1.7[b]	N/A	non-privileged users are defined.	Functional	Intersects With	Privileged Functions Prohibit Non-Privileged Users from Executing	IAC-21.5	circumventing or attering implemented security saregularis? Ountermeasures. Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabiling, circumventing or altering implemented security safeguards /	5	
3.1.7[c]	N/A	non-privileged users are prevented from executing privileged functions.	Functional	Intersects With	Privileged Functions Prohibit Non-Privileged Users from Executing Privileged Functions	IAC-21.5	Countermeasures. Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabiling, circumventing or altering implemented security safeguards / countermeasures.	5	
3.1.7[d]	N/A	the execution of privileged functions is captured in audit logs.	Functional	Intersects With	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 /	5	
3.1.8	N/A	Determine If:	Functional	No Relationship	N/A	N/A	countermeasures. N/A	N/A	No requirements to map to.
3.1.8[a]	N/A	the means of limiting unsuccessful logon attempts is defined.	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	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)
3.1.8[b]	N/A	the defined means of limiting unsuccessful logon attempts is implemented.	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	(optional)	
							period and automatically locks the account when the maximum number of unsuccessful attempts is exceeded.		
3.1.9	N/A	Determine If: privacy and security notices required by CUI-specified rules are	Functional	No Relationship		N/A	N/A Mechanisms exist to utilize system use notification / logon	N/A	No requirements to map to.
3.1.9[a]	N/A	identified, consistent, and associated with the specific CUI category privacy and security notices required by CUI-specified rules are	Functional	Intersects With	System Use Notification (Logon Banner)	SEA-18	banners that display an approved system use notification message or banner before granting access to the system that provides cybersecurity & data privacy notices. Mechanisms exist to configure Microsoft Windows-based	5	
3.1.9[a]	N/A	identified, consistent, and associated with the specific CUI category	Functional	Intersects With	Standardized Microsoft Windows Banner	SEA-18.1	systems to display an approved logon banner before granting access to the system that provides cybersecurity & data privacy notices.	5	
3.1.9[a]	N/A	privacy and security notices required by CUI-specified rules are identified, consistent, and associated with the specific CUI category	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.	5	
3.1.9[b]	N/A	privacy and security notices are displayed.	Functional	Intersects With	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	5	
3.1.9[b]	N/A	privacy and security notices are displayed.	Functional	Intersects With	Standardized Microsoft Windows Banner	SEA-18.1	provides cybersecurity & data privacy notices. 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	5	
3.1.9[b]	N/A	privacy and security notices are displayed.	Functional	Intersects With	Truncated Banner	SEA-18.2	notices. Mechanisms exist to utilize a truncated system use notification / logon banner on systems not capable of displaying a logon	5	
3.1.10	N/A	Determine If:	Functional	No Relationship	N/A	N/A	banner from a centralized source, such as Active Directory. N/A	N/A	No requirements to man to.
		the period of inactivity after which the system initiates a session lock is					Mechanisms exist to initiate a session lock after an		
3.1.10[a]	N/A	defined.	Functional	Intersects With	Session Lock	IAC-24	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.	5	
3.1.10[b]	N/A	access to the system and viewing of data is prevented by initiating a session lock after the defined period of inactivity.	Functional	Intersects With	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.	5	
3.1.10[c]	N/A	previously visible information is conceated via a pattern-hiding display after the defined period of inactivity.	Functional	Intersects With	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	5	
3.1.11	N/A	Determine If:	Functional	No Relationship	N/A	N/A	authentication methods. N/A	N/A	No requirements to map to.
3.1.11[a]	N/A	conditions requiring a user session to terminate are defined.	Functional	Intersects With	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 organization-defined period of inactivity.	5	
3.1.11[b]	N/A	a user session is automatically terminated after any of the defined conditions occur.	Functional	Intersects With	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 organization-defined period of inactivity.	5	
3.1.12	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.12[a]	N/A	remote access sessions are permitted.	Functional	Intersects With	Automated Monitoring & Control	NET-14.1	Automated mechanisms exist to monitor and control remote access sessions.	5	
3.1.12[b]	N/A	the types of permitted remote access are identified. remote access sessions are controlled.	Functional	Intersects With	Automated Monitoring & Control Automated Monitoring &	NET-14.1	Automated mechanisms exist to monitor and control remote access sessions. Automated mechanisms exist to monitor and control remote	5	
3.1.12[c]	N/A	remote access sessions are monitored.	Functional	Intersects With	Control Automated Monitoring &	NET-14.1 NET-14.1	access sessions. Automated mechanisms exist to monitor and control remote	5	
3.1.12[d] 3.1.13	N/A N/A	Determine If:	Functional	No Relationship	Control N/A	N/A	access sessions. N/A	N/A	No requirements to map to.
3.1.13[a]	N/A	cryptographic mechanisms to protect the confidentiality of remote access sessions are identified.	Functional	Intersects With	Protection of Confidentiality / Integrity Using Encryption	NET-14.2	Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).	5	
3.1.13[b]	N/A	cryptographic mechanisms to protect the confidentiality of remote access sessions are implemented.	Functional	Intersects With	Protection of Confidentiality / Integrity	NET-14.2	Cryptographic mechanisms exist to protect the confidentiality and integrity of remote access sessions (e.g., VPN).	5	
3.1.14	N/A	Determine If:	Functional	No Relationship	Using Encryption N/A	N/A	N/A	N/A	No requirements to map to.
3.1.14[a]	N/A	managed access control points are identified and implemented.	Functional	Intersects With	Managed Access Control	NET-14.3	Mechanisms exist to route all remote accesses through managed network access control points (e.g., VPN	5	
3.1.14[b]	N/A	remote access is routed through managed network access control points.	Functional	Intersects With	Points Managed Access Control	NET-14.3	concentrator). Mechanisms exist to route all remote accesses through managed network access control points (e.g., VPN	5	
3.1.15	N/A	Determine If:	Functional	No Relationship	Points N/A	N/A	concentrator).	N/A	No requirements to map to.
3.1.15[a]	N/A	privileged commands authorized for remote execution are identified.	Functional	Intersects With	Remote Privileged Commands & Sensitive	NET-14.4	Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via	5	
3.1.15[b]	N/A	security-relevant information authorized to be accessed remotely is identified.	Functional	Intersects With	Data Access Remote Privileged	NET-14.4	remote access only for compelling operational needs. Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via	5	
3.1.15[c]	N/A	the execution of the identified privileged commands via remote access is authorized.	Functional	Intersects With	Data Access Remote Privileged Commands & Sensitive	NET-14.4	remote access only for compelling operational needs. Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via	5	
3.1.15[d]	N/A	access to the identified security-relevant information via remote access is authorized.	Functional	Intersects With	Data Access Remote Privileged Commands & Sensitive Data Access	NET-14.4	remote access only for compelling operational needs. Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs.	5	
3.1.16	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.16[a]	N/A	wireless access points are identified.	Functional	Intersects With	Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized wireless access.	5	
3.1.16[b]	N/A	wireless access is authorized prior to allowing such connections.	Functional	Intersects With	Wireless Networking	NET-15	Mechanisms exist to control authorized wireless usage and monitor for unauthorized wireless access.	5	
3.1.17	N/A	Determine If: wireless access to the system is protected using encryption.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to secure Wi-Fi (e.g., IEEE 802.11) and	N/A	No requirements to map to.
3.1.17[a]	N/A	wireless access to the system is protected using authentication.	Functional	Intersects With	Authentication & Encryption	NET-15.1	prevent unauthorized access by: (1) Authenticating devices trying to connect; and (2) Encrypting transmitted data. Mechanisms exist to secure Wi-Fi (e.g., IEEE 802.11) and	5	
3.1.17[b]	N/A		Functional	Intersects With	Authentication & Encryption	NET-15.1	prevent unauthorized access by: (1) Authenticating devices trying to connect; and (2) Encrypting transmitted data.	5	
3.1.18	N/A	Determine If: mobile devices that process, store, or transmit CUI are identified.	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.18[a]	N/A	, J. Garante Gordo donalida	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	



EDE II	FDF Nove	Focal Document Element (FDE) Description	STRM	STRM	205 0	205 #	Secure Controls Framework (SCF)	Strength of	Notes (anthorn)
FDE#	FDE Name	the connection of mobile devices is authorized.	Rationale	Relationship	SCF Control	SCF#	Control Description	Relationship (optional)	Notes (optional)
3.1.18[b]	N/A		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	
3.1.18[c]	N/A	mobile device connections are monitored and logged.	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	
3.1.19	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.19[a]	N/A	mobile devices and mobile computing platforms that process, store, or transmit CUI are identified.	Functional	Intersects With	Full Device & Container-	MDM-03	Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-	5	
0.1.10[0]	N/A	encryption is employed to protect CUI on identified mobile devices and	ranotionat	microcoto Will	Based Encryption	11511 00	device or container encryption. Cryptographic mechanisms exist to protect the confidentiality		
3.1.19[b]	N/A	mobile computing platforms.	Functional	Intersects With	Full Device & Container- Based Encryption	MDM-03	and integrity of information on mobile devices through full- device or container encryption.	5	
3.1.20	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.20[a]	N/A	connections to external systems are identified.	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	
3.1.20[b]	N/A	use of external systems is identified.	Functional	Intersects With	Use of External	DCH-13	Mechanisms exist to govern how external parties, systems and	5	
0.4.005-1		connections to external systems are verified.	Frankland	Indonesia Maria	Information Systems Use of External	DOUL 40	services are used to securely store, process and transmit data. Mechanisms exist to govern how external parties, systems and	-	
3.1.20[c]	N/A	use of external systems is verified.	Functional	Intersects With	Information Systems	DCH-13	services are used to securely store, process and transmit data.	5	
3.1.20[d]	N/A	and of external dysternals formed.	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	
3.1.20[e]	N/A	connections to external systems are controlled/limited.	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	
3.1.20[f]	N/A	use of external systems is controlled/limited.	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	
3.1.21	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.21[a]	N/A	use of organizational portable storage devices containing CUI on external systems is identified and documented.	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	
3.1.21[b]	N/A	external systems is identified and documented. Limits on the use of organizational portable storage devices containing CUI on external systems are defined.	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	
3.1.21[c]	N/A	use of organizational portable storage devices containing CUI on external systems is limited as defined.	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	
3.1.22	N/A	Determine if CUI posted or processed on publicly accessible systems is controlled.	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.22[a]	N/A	individuals authorized to post or process information on publicly accessible systems are identified.	Functional	Intersects With	Multi-Tenant Environments	CLD-06	Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.	5	
3.1.22[a]	N/A	individuals authorized to post or process information on publicly accessible systems are identified.	Functional	Intersects With	Sensitive Data In Public Cloud Providers	CLD-10	Mechanisms exist to limit and manage the storage of sensitive/regulated data in public cloud providers.	5	
3.1.22[a]	N/A	individuals authorized to post or process information on publicly accessible systems are identified.	Functional	Intersects With	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	5	
3.1.22[a]	N/A	individuals authorized to post or process information on publicly accessible systems are identified.	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain	5	
3.1.22[a]	N/A	individuals authorized to post or process information on publicly accessible systems are identified.	Functional	Intersects With	Client-Facing Web Services	WEB-04	services, protocols and ports. Mechanisms exist to deploy reasonably-expected security controls to protect the confidentiality and availability of client data that is stored, transmitted or processed by the Internet-based service.	5	
3.1.22[b]	N/A	procedures to ensure CUI is not posted or processed on publicity accessible systems are identified.	Functional	Intersects With	Multi-Tenant Environments	CLD-06	Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.	5	
3.1.22[b]	N/A	procedures to ensure CUI is not posted or processed on publicly accessible systems are identified.	Functional	Intersects With	Sensitive Data In Public Cloud Providers	CLD-10	Mechanisms exist to limit and manage the storage of sensitive/regulated data in public cloud providers.	5	
3.1.22[b]	N/A	procedures to ensure CUI is not posted or processed on publicly accessible systems are identified.	Functional	Intersects With	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	5	
3.1.22[b]	N/A	procedures to ensure CUI is not posted or processed on publicly accessible systems are identified.	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain	5	
3.1.22[b]	N/A	procedures to ensure CUI is not posted or processed on publicly accessible systems are identified.	Functional	Intersects With	Client-Facing Web Services	WEB-04	services, protocols and ports. Mechanisms exist to deploy reasonably-expected security controls to protect the confidentiality and availability of client data that is stored, transmitted or processed by the Internet-based service.	5	
		a review process in in place prior to posting of any content to publicly accessible systems.			Multi-Tenant		Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such		
3.1.22[c]	N/A		Functional	Intersects With	Environments	CLD-06	that provider and customer (tenant) user access is appropriately segmented from other tenant users.	5	
3.1.22[c]	N/A	a review process in in place prior to posting of any content to publicly accessible systems.	Functional	Intersects With	Sensitive Data In Public Cloud Providers	CLD-10	Mechanisms exist to limit and manage the storage of sensitive/regulated data in public cloud providers.	5	
3.1.22[c]	N/A	a review process in in place prior to posting of any content to publicly accessible systems.	Functional	Intersects With	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	5	
3.1.22[c]	N/A	a review process in in place prior to posting of any content to publicly accessible systems.	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain services, protocols and ports.	5	
3.1.22[c]	N/A	a review process in in place prior to posting of any content to publicly accessible systems.	Functional	Intersects With	Client-Facing Web Services	WEB-04	Mechanisms exist to deploy reasonably-expected security controls to protect the confidentiality and availability of client data that is stored, transmitted or processed by the Internet-based service.	5	
3.1.22[d]	N/A	content on publicly accessible information systems is reviewed to ensure that it does not include CUI.	Functional	Intersects With	Multi-Tenant Environments	CLD-06	Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.	5	
3.1.22[d]	N/A	content on publicly accessible information systems is reviewed to ensure that it does not include CUI.	Functional	Intersects With	Sensitive Data In Public Cloud Providers	CLD-10	Mechanisms exist to limit and manage the storage of sensitive/regulated data in public cloud providers.	5	
3.1.22[d]	N/A	content on publicly accessible information systems is reviewed to ensure that it does not include CUI.	Functional	Intersects With	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	5	
3.1.22[d]	N/A	content on publicly accessible information systems is reviewed to ensure that it does not include CUI.	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain services, protocols and ports.	5	
3.1.22[d]	N/A	content on publicly accessible information systems is reviewed to ensure that it does not include CUI.	Functional	Intersects With	Client-Facing Web Services	WEB-04	Mechanisms exist to deploy reasonably-expected security controls to protect the confidentiality and availability of client data that is stored, transmitted or processed by the Internet-based service.	5	
3.1.22[e]	N/A	mechanisms are in place to remove and address improper posting of CUI.	Functional	Intersects With	Multi-Tenant Environments	CLD-06	Mechanisms exist to ensure multi-tenant owned or managed assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately segmented from other tenant users.	5	
3.1.22[e]	N/A	mechanisms are in place to remove and address improper posting of CUI.	Functional	Intersects With	Sensitive Data In Public Cloud Providers	CLD-10	Mechanisms exist to limit and manage the storage of sensitive/regulated data in public cloud providers.	5	
3.1.22[e]	N/A	mechanisms are in place to remove and address improper posting of	Functional	Intersects With	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content.	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)
3.1.22[e]	N/A	mechanisms are in place to remove and address improper posting of CUI.	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain	5	
3.1.22[e]	N/A	mechanisms are in place to remove and address improper posting of CUI.	Functional	Intersects With	Client-Facing Web Services	WEB-04	services, protocols and ports. Mechanisms exist to deploy reasonably-expected security controls to protect the confidentiality and availability of client data that is stored, transmitted or processed by the Internet-based service.	5	
3.2.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.2.1[a]	N/A	security risks associated with organizational activities involving CUI are identified.	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	
3.2.1[b]	N/A	policies, standards, and procedures related to the security of the system are identified.	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	
3.2.1[c]	N/A	managers, systems administrators, and users of the system are made aware of the security risks associated with their activities.	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	5	
3.2.1[d]	N/A	managers, systems administrators, and users of the system are made aware of the applicable policies, standards, and procedures related to	Functional	Intersects With	Training Cybersecurity & Data Privacy Awareness	SAT-02	for their job function. Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant	5	
3.2.2	N/A	the security of the system. Determine If:	Functional	No Relationship	Training N/A	N/A	for their job function. N/A	N/A	No requirements to map to.
3.2.2[a]	N/A	information security-related duties, roles, and responsibilities are	Functional	Subset Of	Human Resources	HRS-01	Mechanisms exist to facilitate the implementation of personnel	10	
3.2.2[a]	N/A	defined. information security-related duties, roles, and responsibilities are defined.	Functional	Intersects With	Role-Based Cybersecurity & Data Privacy Training	SAT-03	security controls. 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	
3.2.2[b]	N/A	information security-related duties, roles, and responsibilities are assigned to designated personnel.	Functional	Subset Of	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
3.2.2[b]	N/A	information security-related duties, roles, and responsibilities are assigned to designated 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) Annualty thereafter.	5	
3.2.2[c]	N/A	personnel are adequately trained to carry out their assigned information security-related duties, roles, and responsibilities.	Functional	Subset Of	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
3.2.2[c]	N/A	personnel are adequately trained to carry out their assigned information security-related duties, roles, and responsibilities.	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	
3.2.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.2.3[a]	N/A	potential indicators associated with insider threats are identified.	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	
3.2.3[b]	N/A	security awareness training on recognizing and reporting potential indicators of insider threat is provided to managers and employees.	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	
3.3.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.3.1[a]		audit logs needed (i.e., event types to be logged) to enable the monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified.					Mechanisms exist to configure systems to produce event logs that contain sufficient information to, at a minimum:		
	N/A		Functional	Intersects With	Content of Event Logs	MON-03	(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	
3.3.1[b]	N/A N/A	the content of audit records needed to support monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity is defined.	Functional Functional	Intersects With	Content of Event Logs Content of Event Logs	MON-03	(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	5	
3.3.1[b] 3.3.1[c]		investigation, and reporting of unlawful or unauthorized system activity is defined. audit records are created (generated).					(1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) When (date and time) the event occurred; (4) The source of the event; (6) 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 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		
	NA	investigation, and reporting of unlawful or unauthorized system activity is defined.	Functional	Intersects With	Content of Event Logs	MON-03	It 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; (6) The source of the event; (6) 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 contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to link system access to individual users or	5	
3.3.1[e]	N/A N/A	investigation, and reporting of unlawful or unauthorized system activity is defined. audit records are created (generated). audit records, once created, contain the defined content.	Functional Functional	Intersects With	Content of Event Logs Audit Traits	MON-03.2	(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; (6) The source of the event; (6) The source of the event; (6) 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 contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (3) Where the event occurred; (3) Where the event occurred; (6) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to link system access to individual users or service accounts. (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 the event; (6) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. 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.	5	
3.3.1[c] 3.3.1[d]	N/A N/A	investigation, and reporting of unlawful or unauthorized system activity is defined. audit records are created (generated). audit records, once created, contain the defined content.	Functional Functional	Intersects With Intersects With Intersects With Intersects With	Content of Event Logs Audit Traits Content of Event Logs	MON-03.2 MON-03.2	It 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 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; (3) Where the event occurred; (6) The source of the event silicure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to link system access to individual users or service accounts. Mechanisms exist to link system access to individual users or service accounts. Mechanisms exist to link system access to individual users or service accounts. (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (3) Where the event occurred; (3) The source of the event; (6) The source of the event; (6) The didnity of any user/subject associated with the event. 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 author to mean station, regulatory and contractual retention	5 5	
3.3.1[c] 3.3.1[d] 3.3.1[e]	N/A N/A N/A	investigation, and reporting of unlawful or unauthorized system activity is defined. audit records are created (generated). audit records, once created, contain the defined content. retention requirements for audit records are defined. audit records are retained as defined.	Functional Functional Functional	Intersects With Intersects With Intersects With	Content of Event Logs Audit Traits Content of Event Logs Event Log Retention	MON-03.2 MON-03.2	(1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) When (date and time) the event occurred; (4) The source of the event; (6) The source of the event; (6) The source of 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 contain sufficient information to, at a minimum; (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (4) The source of the event; (6) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to tink system access to individual users or service accounts. Mechanisms exist to onligure 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; (6) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. 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. 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.	5 5 5	No requirements to map to.
3.3.1[c] 3.3.1[d] 3.3.1[e] 3.3.1[f]	N/A N/A N/A	investigation, and reporting of unlawful or unauthorized system activity is defined. audit records are created (generated). audit records, once created, contain the defined content. retention requirements for audit records are defined. audit records are retained as defined. Determine If: the content of the audit records needed to support the ability to uniquely trace users to their actions is defined.	Functional Functional Functional Functional	Intersects With Intersects With Intersects With Intersects With	Content of Event Logs Audit Trails Content of Event Logs Event Log Retention	MON-03.2 MON-03.2 MON-03 MON-10	(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; (6) The outcome (success or failure) of the event; and (6) The distingtive of any user/subject associated with the event. 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) Where the event occurred; (3) Where the event occurred; (3) 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 link system access to individual users or service accounts. Mechanisms exist to link system access to individual users or service accounts. (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where 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 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. N/A 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. N/A 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) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; (6) The outcome (success or failure) of the event; (6) The outcome (success or failure) of the event; (7) When (date and time) the event occurred; (8) The source of the	5 5 5	No requirements to map to.
3.3.1[c] 3.3.1[d] 3.3.1[e] 3.3.1[f]	N/A N/A N/A N/A	investigation, and reporting of unlawful or unauthorized system activity is defined. audit records are created (generated). audit records, once created, contain the defined content. retention requirements for audit records are defined. audit records are retained as defined.	Functional Functional Functional Functional Functional	Intersects With Intersects With Intersects With Intersects With No Relationship	Content of Event Logs Audit Trails Content of Event Logs Event Log Retention Event Log Retention	MON-03.2 MON-03.2 MON-03 MON-10 N/A	(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; (6) 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 contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (3) Where the event occurred; (3) Where the event occurred; (4) The source of the event; (6) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to link system access to individual users or service accounts. 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; (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 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. NAC 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. NAC 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 (devent occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and	5 5 5 5 N/A	No requirements to map to.



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SCF#	Secure Controls Framework (SCF)	Strength of Relationship	Notes (optional)
		audit records, once created, contain the defined content.	Rationale	Relationship			Control Description Mechanisms exist to configure systems to produce event logs	(optional)	
							that contain sufficient information to, at a minimum: (1) Establish what type of event occurred;		
3.3.2[b]	N/A		Functional	Intersects With	Content of Event Logs	MON-03	(2) When (date and time) the event occurred;	5	
							(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.		
3.3.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.3.3[a]	N/A	a process for determining when to review logged events is defined.	Functional	Intersects With	Security Event Monitoring	MON-01.8	Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines	5	
		event types being logged are reviewed in accordance with the defined					and procedures. Mechanisms exist to review event logs on an ongoing basis and		
3.3.3[b]	N/A	review process.	Functional	Intersects With	Security Event Monitoring	MON-01.8	escalate incidents in accordance with established timelines and procedures.	5	
3.3.3[c]	N/A	event types being logged are updated based on the review.	Functional	Intersects With	Security Event Monitoring	MON-01.8	Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines	5	
3.3.4	N/A	Determine If:	Functional	No Relationship	N/A	N/A	and procedures. N/A	N/A	No requirements to map to.
3.3.4[a]	N/A	personnel or roles to be alerted in the event of an audit logging process failure are identified.	Functional	Intersects With	Response To Event Log	MON-05	Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the	5	
		types of audit logging process failures for which alert will be generated			Processing Failures Response To Event Log		disruption. Mechanisms exist to alert appropriate personnel in the event of		
3.3.4[b]	N/A	are defined.	Functional	Intersects With	Processing Failures	MON-05	a log processing failure and take actions to remedy the disruption.	5	
3.3.4[c]	N/A	identified personnel or roles are alerted in the event of an audit logging process failure.	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	5	
3.3.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	disruption. N/A	N/A	No requirements to map to.
		audit record review, analysis, and reporting processes for investigation					Automated mechanisms exist to correlate both technical and		
3.3.5[a]	N/A	and response to indications of unlawful, unauthorized, suspicious, or unusual activity are defined.	Functional	Intersects With	Correlate Monitoring Information	MON-02.1	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	
		defined audit record review, analysis, and reporting processes are correlated.					Automated mechanisms exist to correlate both technical and		
3.3.5[b]	N/A		Functional	Intersects With	Correlate Monitoring Information	MON-02.1	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	
3.3.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	tool, to enhance organization-wide situational awareness. N/A	N/A	No requirements to map to.
3.3.6[a]	N/A	an audit record reduction capability that supports on-demand analysis is provided.	Functional	Intersects With	Monitoring Reporting	MON-06	Mechanisms exist to provide an event log report generation capability to aid in detecting and assessing anomalous	5	
0.0.0[0]		a report generation capability that supports on-demand reporting is	Tunotional	merocoto vita	Tromoning reporting	11011 00	activities. Mechanisms exist to provide an event log report generation		
3.3.6[b]	N/A	provided.	Functional	Intersects With	Monitoring Reporting	MON-06	capability to aid in detecting and assessing anomalous activities.	5	
3.3.7	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.3.7[a]	N/A	internal system clocks are used to generate time stamps for audit records.	Functional	Intersects With	Time Stamps	MON-07	Mechanisms exist to configure systems to use an authoritative time source to generate time stamps for event logs.	5	
3.3.7[b]	N/A	an authoritative source with which to compare and synchronize internal system clocks is specified.	Functional	Intersects With	Time Stamps	MON-07	Mechanisms exist to configure systems to use an authoritative time source to generate time stamps for event logs.	5	
3.3.7[b]	N/A	an authoritative source with which to compare and synchronize internal system clocks is specified.	Functional	Intersects With	Synchronization With	MON-07.1	Mechanisms exist to synchronize internal system clocks with	5	
0.0.7[0]	INA	internal system clocks used to generate time stamps for audit records	ranotionat	merseous viid	Authoritative Time Source	11011 07.1	an authoritative time source.	-	
3.3.7[c]	N/A	are compared to and synchronized with the specified authoritative time source.	Functional	Intersects With	Synchronization With Authoritative Time Source	MON-07.1	Mechanisms exist to synchronize internal system clocks with an authoritative time source.	5	
3.3.8	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.3.8[a]	N/A	audit information is protected from unauthorized access.	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	
3.3.8[b]	N/A	audit information is protected from unauthorized modification.	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	
3.3.8[c]	N/A	audit information is protected from unauthorized 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	
3.3.8[d]	N/A	audit logging tools are protected from unauthorized access.	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	
3.3.8[e]	N/A	audit logging tools are protected from unauthorized modification.	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	
3.3.8[f]	N/A	audit logging tools are protected from unauthorized 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	
3.3.9	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.3.9[a]	N/A	a subset of privileged users granted access to manage audit logging	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	
3.3.9[b]	N/A	nunctionality is defined. management of audit togging functionality is limited to the defined subset of privileged users.	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	
3.4.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
2.4.45-7		a baseline configuration is established.	Furnit	Inter	System Hardening	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are	5	
3.4.1[a]	N/A		Functional	Intersects With	Through Baseline Configurations	CFG-02	consistent with industry-accepted system hardening standards.	5	
3.4.1[a]	N/A	a baseline configuration is established.	Functional	Subset Of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
3.4.1[b]	N/A	the baseline configuration includes hardware, software, firmware, and documentation.	Functional	Intersects With	System Hardening Through Baseline	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are	5	
- t to tage of					Configurations		consistent with industry-accepted system hardening standards.	-	
3.4.1[b]	N/A	the baseline configuration includes hardware, software, firmware, and documentation.	Functional	Subset Of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
3.4.1[c]	N/A	the baseline configuration is maintained (reviewed and updated) throughout the system development life cycle.	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	
3.4.1[c]	N/A	the baseline configuration is maintained (reviewed and updated) throughout the system development life cycle.	Functional	Subset Of	Endpoint Security	END-01	Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
3.4.1[d]	N/A	a system inventory is established.	Functional	Intersects With	Asset Inventories	AST-02	Mechanisms exist to maintain a current list of approved technologies (hardware and software).	5	
3.4.1[e]	N/A	the system inventory includes hardware, software, firmware, and documentation.	Functional	Intersects With	Asset Inventories	AST-02	Mechanisms exist to maintain a current list of approved technologies (hardware and software).	5	
3.4.1[f]	N/A	the inventory is maintained (reviewed and updated) throughout the system development life cycle.	Functional	Intersects With	Asset Inventories	AST-02	Mechanisms exist to maintain a current list of approved technologies (hardware and software).	5	
		the inventory is maintained (reviewed and updated) throughout the	Frankland	Intersects With	Updates During	AST-02.1	Mechanisms exist to maintain a current list of approved	5	
3.4.1[f]	N/A	system development life cycle.	Functional	intersects with	Installations / Removals		technologies (hardware and software).		



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)
3.4.2[a]	N/A	security configuration settings for information technology products employed in the system are established and included in the baseline configuration.	Functional	Intersects With	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening	5	
3.4.2[a]	N/A	security configuration settings for information technology products employed in the system are established and included in the baseline configuration.	Functional	Subset Of	Endpoint Security	END-01	standards. Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
3.4.2[b]	N/A	configuration settings for information technology products employed in the system are enforced.	Functional	Intersects With	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for technology platforms that are consistent with industry-accepted system hardening	5	
3.4.2[b]	N/A	security configuration settings for information technology products employed in the system are enforced.	Functional	Subset Of	Endpoint Security	END-01	standards. Mechanisms exist to facilitate the implementation of endpoint security controls.	10	
3.4.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.4.3[a]	N/A	changes to the system are tracked.	Functional	Intersects With	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
3.4.3[b]	N/A	changes to the system are reviewed.	Functional	Intersects With	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
3.4.3[c]	N/A	changes to the system are approved or disapproved.	Functional	Intersects With	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
3.4.3[d]	N/A	changes to the system are logged.	Functional	Intersects With	Configuration Change Control	CHG-02	Mechanisms exist to govern the technical configuration change control processes.	5	
3.4.4	N/A	Determine if the security impact of changes to each organizational system is analyzed prior to implementation.	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	
3.4.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.4.5[a]	N/A	physical access restrictions associated with changes to the system are defined.	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	
3.4.5[a]	N/A	physical access restrictions associated with changes to the system are defined.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems. Mechanisms exist to enforce configuration restrictions in an	5	
3.4.5[b]	N/A	physical access restrictions associated with changes to the system are documented. physical access restrictions associated with changes to the system are	Functional	Intersects With	Access Restriction For Change	CHG-04	effort to restrict the ability of users to conduct unauthorized changes.	5	
3.4.5[b]	N/A	documented. physical access restrictions associated with changes to the system are	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems. Mechanisms exist to enforce configuration restrictions in an	5	
3.4.5[c]	N/A	approved. physical access restrictions associated with changes to the system are	Functional	Intersects With	Access Restriction For Change	CHG-04	effort to restrict the ability of users to conduct unauthorized changes.	5	
3.4.5[c]	N/A	approved.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems.	5	
3.4.5[d]	N/A	physical access restrictions associated with changes to the system are enforced.	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	
3.4.5[d]	N/A	physical access restrictions associated with changes to the system are enforced.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems.	5	
3.4.5[e]	N/A	logical access restrictions associated with changes to the system are defined.	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	
3.4.5[e]	N/A	logical access restrictions associated with changes to the system are defined.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems.	5	
3.4.5[f]	N/A	logical access restrictions associated with changes to the system are documented.	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	
3.4.5[f]	N/A	logical access restrictions associated with changes to the system are documented.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems.	5	
3.4.5[g]	N/A	logical access restrictions associated with changes to the system are approved. logical access restrictions associated with changes to the system are	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	
3.4.5[g]	N/A	togical access restrictions associated with changes to the system are approved. logical access restrictions associated with changes to the system are	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems. Mechanisms exist to enforce configuration restrictions in an	5	
3.4.5[h]	N/A	enforced. logical access restrictions associated with changes to the system are	Functional	Intersects With	Access Restriction For Change	CHG-04	effort to restrict the ability of users to conduct unauthorized changes.	5	
3.4.5[h]	N/A	enforced.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to systems.	5	
3.4.6	N/A	Determine If: essential system capabilities are defined based on the principle of least	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to configure systems to provide only	N/A	No requirements to map to.
3.4.6[a]	N/A	functionality. the system is configured to provide only the defined essential	Functional	Intersects With	Least Functionality	CFG-03	essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services. Mechanisms exist to configure systems to provide only	5	
3.4.6[b]	N/A	capabilities.	Functional	Intersects With	Least Functionality	CFG-03	essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or services.	5	
3.4.7	N/A	Determine If: essential programs are defined.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to periodically review system configurations	N/A	No requirements to map to.
3.4.7[a]	N/A	the use of nonessential programs is defined.	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[b]	N/A	the use of nonessential programs is restricted, disabled, or prevented as	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[c]	N/A	defined. essential functions are defined.	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[d]	N/A	the use of nonessential functions is defined.	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[e]	N/A	the use of nonessential functions is defined. the use of nonessential functions is restricted, disabled, or prevented as	Functional	Intersects With	Periodic Review	CFG-03.1	rectains to state to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[f]	N/A	the use or nonessential functions is restricted, disabled, or prevented as defined. essential ports are defined.	Functional	Intersects With	Periodic Review	CFG-03.1	recnanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[g]	N/A	essential ports are defined. the use of nonessential ports is defined.	Functional	Intersects With	Periodic Review	CFG-03.1	recnanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[h]	N/A	the use of nonessential ports is defined. the use of nonessential ports is restricted, disabled, or prevented as	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. Mechanisms exist to periodically review system configurations	5	
3.4.7[i]	N/A	the use of nonessential ports is restricted, disabled, or prevented as defined. essential protocols are defined.	Functional	Intersects With	Periodic Review	CFG-03.1	recnanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	5	
3.4.7[j]	N/A	as processed and swillings.	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
3.4.7[k]	N/A	the use of nonessential protocols is defined.	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.	5	
3.4.7[l]	N/A	the use of nonessential protocols is restricted, disabled, or prevented as defined.	Functional	Intersects With	Periodic Review	CFG-03.1	Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure	5	
3.4.7[m]	N/A	essential services are defined.	Functional	Intersects With	Periodic Review	CFG-03.1	functions, ports, protocols and services. Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure	5	
3.4.7[n]	N/A	the use of nonessential services is defined.	Functional	Intersects With	Periodic Review	CFG-03.1	functions, ports, protocols and services. Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure	5	
3.4.7[o]	N/A	the use of nonessential services is restricted, disabled, or prevented as defined.	Functional	Intersects With	Periodic Review	CFG-03.1	functions, ports, protocols and services. Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure	5	
3.4.8	N/A	Determine If:	Functional	No Relationship	N/A	N/A	functions, ports, protocols and services. N/A	N/A	No requirements to map to.
3.4.8[a]	N/A	a policy specifying whether whitelisting or blacklisting is to be implemented is specified.	Functional	Intersects With	Explicitly Allow / Deny Applications	CFG-03.3	Mechanisms exist to explicitly allow (allowlist / whitelist) and/or block (denylist / blacklist) applications that are authorized to execute on systems.	5	
3.4.8[b]	N/A	the software allowed to execute under whitelisting or denied use under blacklisting is specified.	Functional	Intersects With	Explicitly Allow / Deny Applications	CFG-03.3	Mechanisms exist to explicitly allow (allowlist / whitelist) and/or block (denylist / blacklist) applications that are	5	
3.4.8[c]	N/A	whitelisting to allow the execution of authorized software or blacklisting to prevent the use of unauthorized software is implemented as	Functional	Intersects With	Explicitly Allow / Deny Applications	CFG-03.3	authorized to execute on systems. Mechanisms exist to explicitly allow (allowlist / whitelist) and/or block (denylist / blacklist) applications that are	5	
3.4.9	N/A	specified. Determine If:	Functional	No Relationship	N/A	N/A	authorized to execute on systems. N/A	N/A	No requirements to map to.
3.4.9[a]	N/A	a policy for controlling the installation of software by users is established.	Functional	Intersects With	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
3.4.9[b]	N/A	installation of software by users is controlled based on the established policy.	Functional	Intersects With	User-Installed Software	CFG-05	Mechanisms exist to restrict the ability of non-privileged users to install unauthorized software.	5	
3.4.9[c]	N/A	installation of software by users is monitored.	Functional	Intersects With	User-Installed Software	CFG-05	Mechanisms exist to restrict the ability of non-privileged users to install unauthorized software.	5	
3.5.1	N/A	Determine If: system users are identified.	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.1[a]	N/A		Functional	Intersects With	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
3.5.1[b]	N/A	processes acting on behalf of users are identified.	Functional	Intersects With	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
3.5.1[c]	N/A	devices accessing the system are identified.	Functional	Intersects With	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
3.5.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.2[a]	N/A	the identity of each user is authenticated or verified as a prerequisite to system access.	Functional	Intersects With	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
3.5.2[b]	N/A	the identity of each process acting on behalf of a user is authenticated or verified as a prerequisite to system access.	Functional	Intersects With	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
3.5.2[c]	N/A	the identity of each device accessing or connecting to the system is authenticated or verified as a prerequisite to system access.	Functional	Intersects With	Identification & Authentication for Organizational Users	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users.	5	
3.5.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.3[a]	N/A	privileged accounts are identified.	Functional	Intersects With	Network Access to Privileged Accounts	IAC-06.1	Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for privileged accounts.	5	
3.5.3[a]	N/A	privileged accounts are identified.	Functional	Intersects With	Local Access to Privileged Accounts	IAC-06.3	Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate local access for privileged accounts.	5	
3.5.3[b]	N/A	multifactor authentication is implemented for local access to privileged accounts. multifactor authentication is implemented for network access to	Functional	Intersects With	Local Access to Privileged Accounts	IAC-06.3	Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate local access for privileged accounts.	5	
3.5.3[c]	N/A	privileged accounts.	Functional	Intersects With	Network Access to Privileged Accounts	IAC-06.1	Mechanisms exist to utilize Multi-Factor Authentication (MFA) to authenticate network access for privileged accounts.	5	
3.5.3[d]	N/A	multifactor authentication is implemented for network access to 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.	5	
3.5.4	N/A	Determine if replay-resistant authentication mechanisms are implemented for all network account access to privileged and non- privileged accounts.	Functional	Intersects With	Replay-Resistant Authentication	IAC-02.2	Automated mechanisms exist to employ replay-resistant authentication.	5	
3.5.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.5[a]	N/A	a period within which identifiers cannot be reused is defined. reuse of identifiers is prevented within the defined period.	Functional	Intersects With	(User Names) Identifier Management	IAC-09	Mechanisms exist to govern naming standards for usernames and systems. Mechanisms exist to govern naming standards for usernames	5	
3.5.5[b]	N/A		Functional	Intersects With	(User Names)	IAC-09	and systems.	5	No. or
3.5.6 3.5.6(a)	N/A	Determine If: a period of inactivity after which an identifier is disabled is defined.	Functional	No Relationship	N/A Disable Inactive	N/A IAC-15.3	N/A Automated mechanisms exist to disable inactive accounts after	N/A 5	No requirements to map to.
3.5.6[a] 3.5.6[b]	N/A N/A	identifiers are disabled after the defined period of inactivity.	Functional	Intersects With	Accounts Disable Inactive	IAC-15.3	an organization-defined time period. Automated mechanisms exist to disable inactive accounts after	5	
3.5.7	N/A N/A	Determine If:	Functional	No Relationship	Accounts N/A	N/A	an organization-defined time period. N/A	N/A	No requirements to map to.
	N/A	password complexity requirements are defined.	Functional	Intersects With	Password-Based	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan	5	
3.5.7[a] 3.5.7[b]	N/A N/A	password change of character requirements are defined.	Functional	Intersects With	Authentication Password-Based	IAC-10.1	considerations to ensure strong criteria for password-based authentication. Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based	5	
3.5.7[c]	N/A	minimum password complexity requirements as defined are enforced when new passwords are created.	Functional	Intersects With	Authentication Password-Based Authentication	IAC-10.1	authentication. Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based	5	
3.5.7[d]	N/A	minimum password change of character requirements as defined are enforced when new passwords are created.	Functional	Intersects With	Password-Based Authentication	IAC-10.1	authentication. Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based	5	
3.5.8	N/A	Determine If:	Functional	No Relationship	N/A	N/A	authentication. N/A	N/A	No requirements to map to.
3.5.8[a]	N/A	the number of generations during which a password cannot be reused is specified.	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	



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)
3.5.8[b]	N/A	reuse of passwords is prohibited during the specified number of generations.	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	
3.5.9	N/A	Determine if an immediate change to a permanent password is required when a temporary password is used for system logon.	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	
3.5.10	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.10[a]	N/A	passwords are cryptographically protected in storage.	Functional	Intersects With	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 access.	5	
3.5.10[b]	N/A	passwords are cryptographically protected in transit.	Functional	Intersects With	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 access. Mechanisms exist to obscure the feedback of authentication	5	
3.5.11	N/A	Determine if authentication information is obscured during the authentication process.	Functional	Intersects With	Authenticator Feedback	IAC-11	information during the authentication process to protect the information from possible exploitation/use by unauthorized individuals.	5	
3.6.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.6.1[a]	N/A	an operational incident-handling capability is established.	Functional	Subset Of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
3.6.1[a]	N/A	an operational incident-handling capability is established.	Functional	Intersects With	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and	5	
3.6.1[b]	N/A	the operational incident-handling capability includes preparation.	Functional	Subset Of	Incident Response Operations	IRO-01	(6) Recoverv. Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
3.6.1[b]	N/A	the operational incident-handling capability includes preparation.	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	
3.6.1[c]	N/A	the operational incident-handling capability includes detection. the operational incident-handling capability includes detection.	Functional	Subset Of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents. Mechanisms exist to cover:	10	
3.6.1[c]	N/A		Functional	Intersects With	Incident Handling	IRO-02	(1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5	
3.6.1[d]	N/A	the operational incident-handling capability includes analysis.	Functional	Subset Of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
3.6.1[d]	N/A	the operational incident-handling capability includes analysis.	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	
3.6.1[e]	N/A	the operational incident-handling capability includes containment.	Functional	Subset Of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
3.6.1[e]	N/A	the operational incident-handling capability includes containment.	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	
3.6.1[f]	N/A	the operational incident-handling capability includes recovery.	Functional	Subset Of	Incident Response Operations	IRO-01	Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response capability for cybersecurity & data privacy-related incidents.	10	
3.6.1[f]	N/A	the operational incident-handling capability includes 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.	5	
3.6.1[g]	N/A	the operational incident-handling capability includes user response activities.	Functional	Intersects With	Incident Handling	IRO-02	Noneucovery (I) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5	
3.6.2	N/A	Determine If: incidents are tracked.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to cover:	N/A	No requirements to map to.
3.6.2[a]	N/A	TO STATE OF	Functional	Intersects With	Incident Handling	IRO-02	Prechamisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
3.6.2[b]	N/A	incidents are documented.	Functional	Intersects With	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and	5	
3.6.2[e]	N/A	authorities to whom incidents are to be reported are identified.	Functional	Intersects With	Incident Handling	IRO-02	IG Recovery. Mechanisms exist to cover:	5	
3.6.2[d]	N/A	organizational officials to whom incidents are to be reported are identified.	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	
3.6.2[e]	N/A	identified authorities are notified of incidents.	Functional	Intersects With	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5	
3.6.2[1]	N/A	identified organizational officials are notified of incidents.	Functional	Intersects With	Incident Handling	IRO-02	Mechanisms exist to cover: (1) Preparation; (2) Automated event detection or manual incident report intake; (3) Analysis; (4) Containment; (5) Eradication; and (6) Recovery.	5	
3.6.3	N/A	Determine if the incident response capability is tested.	Functional	Intersects With	Incident Response Testing	IRO-06	Mechanisms exist to formally test incident response capabilities through realistic exercises to determine the operational effectiveness of those capabilities.	5	
3.7.1	N/A	Determine if system maintenance is performed.	Functional	Intersects With	Controlled Maintenance	MNT-02	Mechanisms exist to conduct controlled maintenance activities throughout the lifecycle of the system, application or service.	5	
3.7.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.7.2[a]	N/A	tools used to conduct system maintenance are controlled. techniques used to conduct system maintenance are controlled.	Functional	Intersects With	Maintenance Tools	MNT-04	Mechanisms exist to control and monitor the use of system maintenance tools. Mechanisms exist to control and monitor the use of system	5	
3.7.2[b]	N/A	mechanisms used to conduct system maintenance are controlled.	Functional	Intersects With	Maintenance Tools	MNT-04	maintenance tools. Mechanisms exist to control and monitor the use of system	5	
3.7.2[c] 3.7.2[d]	N/A	personnel used to conduct system maintenance are controlled.	Functional	Intersects With	Maintenance Tools	MNT-04 MNT-04	maintenance tools. Mechanisms exist to control and monitor the use of system	5	
3.7.2[0]	N/A	Determine if equipment to be removed from organizational spaces for off-		intersects with	Maintenance Tools	MN1-04	maintenance tools. Mechanisms exist to sanitize system media with the strength	5	
3.7.3	N/A	site maintenance is sanitized of any CUI. Determine if media containing diagnostic and test programs are checked	Functional	Intersects With	System Media Sanitization	DCH-09	and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.	5	
3.7.4	N/A	for malicious code before being used in organizational systems that process, store, or transmit CUI.	Functional	Intersects With	Inspect Media	MNT-04.2	Mechanisms exist to check media containing diagnostic and test programs for malicious code before the media are used.	5	
3.7.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.7.5[a]	N/A	multifactor authentication is required to establish nonlocal maintenance sessions via external network connections.	Functional	Intersects With	Remote Maintenance	MNT-05	Mechanisms exist to authorize, monitor and control remote, non-local maintenance and diagnostic activities.	5	
3.7.5[b]	N/A	nonlocal maintenance sessions established via external network connections are terminated when nonlocal maintenance is complete.	Functional	Intersects With	Remote Maintenance	MNT-05	Mechanisms exist to authorize, monitor and control remote, non-local maintenance and diagnostic activities.	5	
3.7.6	N/A	Determine if maintenance personnel without required access authorization are supervised during maintenance activities.	Functional	Intersects With	Authorized Maintenance Personnel	MNT-06	Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel.	5	
3.8.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.8.1[a]	N/A	paper media containing CUI is physically controlled.	Functional	Subset Of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
3.8.1[b]	N/A	digital media containing CUI is physically controlled.	Functional	Subset Of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
3.8.1[c]	N/A	paper media containing CUI is securely stored. digital media containing CUI is securely stored.	Functional	Subset Of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
3.8.1[d]	N/A	digital media containing CUI is securely stored. Determine if access to CUI on system media is limited to authorized	Functional	Subset Of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls. Mechanisms exist to control and restrict access to digital and	10	
3.8.2	N/A	users.	Functional	Intersects With	Media Access	DCH-03	non-digital media to authorized individuals.	5	No. and the second seco
3.8.3	N/A	Determine If: system media containing CUI is sanitized or destroyed before disposal.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to sanitize system media with the strength	N/A	No requirements to map to.
3.8.3[a]	N/A	system media containing CUI is sanitized before it is released for reuse.	Functional	Intersects With	System Media Sanitization	DCH-09	and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse. Mechanisms exist to sanitize system media with the strength	5	
3.8.3[b]	N/A	Controlling Controlling Controlling Deriver it is released for 18058.	Functional	Intersects With	System Media Sanitization	DCH-09	and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.	5	
3.8.4	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.8.4[a]	N/A	media containing CUI is marked with applicable CUI markings.	Functional	Intersects With	Media Marking	DCH-04	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.	5	
3.8.4[b]	N/A	media containing CUI is marked with distribution limitations.	Functional	Intersects With	Media Marking	DCH-04	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.	5	
3.8.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.8.5[a]	N/A	access to media containing CUI is controlled.	Functional	Intersects With	Media Transportation	DCH-07	Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security measures.	5	
3.8.5[b]	N/A	accountability for media containing CUI is maintained during transport outside of controlled areas.	Functional	Intersects With	Media Transportation	DCH-07	Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security measures.	5	
		Determine if the confidentiality of CUI stored on digital media is	Functional	Intersects With	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized	5	
3.8.6	N/A	protected during transport using cryptographic mechanisms or alternative physical safeguards.	runctionat	IIIteraecta with	Enorypting Data / triost		disclosure of data at rest.		



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3.8.8	N/A	Determine if the use of portable storage devices is prohibited when such devices have no identifiable owner.	Functional	Intersects With	Prohibit Use Without Owner	DCH-10.2	Mechanisms exist to prohibit the use of portable storage devices in organizational information systems when such	5	
3.8.9	N/A	Determine if the confidentiality of backup CUI is protected at storage locations.	Functional	Intersects With	Data Backups	BCD-11	devices have no identifiable owner. 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 (RFOs).	5	
3.8.9	N/A	Determine if the confidentiality of backup CUI is protected at storage locations.	Functional	Intersects With	Cryptographic Protection	BCD-11.4	Cryptographic mechanisms exist to prevent the unauthorized disclosure and/or modification of backup information.	5	
3.9.1	N/A	Determine if individuals are screened prior to authorizing access to organizational systems.	Functional	Intersects With	Personnel Screening	HRS-04	Mechanisms exist to manage personnel security risk by screening individuals prior to authorizing access.	5	
3.9.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.9.2[a]	N/A	a policy and/or process for terminating system access authorization and any credentials coincident with personnel actions is established.	Functional	Intersects With	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	5	
3.9.2[a]	N/A	a policy and/or process for terminating system access authorization and any credentials coincident with personnel actions is established.	Functional	Subset Of	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
3.9.2[a]	N/A	a policy and/or process for terminating system access authorization and any credentials coincident with personnel actions is established.	Functional	Intersects With	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
3.9.2[a]	N/A	a policy and/or process for terminating system access authorization and any credentials coincident with personnel actions is established.	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	
3.9.2[a]	N/A	a policy and/or process for terminating system access authorization and any credentials coincident with personnel actions is established.	Functional	Intersects With	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	5	
3.9.2[b]	N/A	system access and credentials are terminated consistent with personnel actions such as termination or transfer.	Functional	Intersects With	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
3.9.2[b]	N/A	system access and credentials are terminated consistent with personnel actions such as termination or transfer.	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	
3.9.2[b]	N/A	system access and credentials are terminated consistent with personnel actions such as termination or transfer.	Functional	Intersects With	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	5	
3.9.2[c]	N/A	the system is protected during and after personnel transfer actions.	Functional	Intersects With	Personnel Sanctions	HRS-07	Mechanisms exist to sanction personnel failing to comply with established security policies, standards and procedures.	5	
3.9.2[c]	N/A	the system is protected during and after personnel transfer actions.	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	
3.9.2[c]	N/A	the system is protected during and after personnel transfer actions.	Functional	Intersects With	Personnel Termination	HRS-09	Mechanisms exist to govern the termination of individual employment.	5	
3.10.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.10.1[a]	N/A	authorized individuals allowed physical access are identified.	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	
3.10.1[b]	N/A	physical access to organizational systems is limited to authorized individuals.	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	
3.10.1[c]	N/A	physical access to equipment is limited to authorized individuals.	Functional	Intersects With	Physical Access Authorizations	PES-02	Tacitity Omiciatiy designated as publicity accessible). 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	
3.10.1[d]	N/A	physical access to operating environments is limited to authorized individuals.	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	
3.10.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.10.2[a]	N/A	the physical facility where that system resides is protected.	Functional	Subset Of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
3.10.2[b]	N/A	the support infrastructure for that system is protected.	Functional	Subset Of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
3.10.2[c]	N/A	the physical facility where that system resides is monitored.	Functional	Subset Of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
3.10.2[c]	N/A	the physical facility where that system resides is monitored.	Functional	Subset Of	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	5	
3.10.2[c]	N/A	the physical facility where that system resides is monitored.	Functional	Intersects With	Intrusion Alarms / Surveillance Equipment	PES-05.1	Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment.	5	
3.10.2[c]	N/A	the physical facility where that system resides is monitored.	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.		
3.10.2[d]	N/A	the support infrastructure for that system is monitored.	Functional	Subset Of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
3.10.2[d]	N/A	the support infrastructure for that system is monitored.	Functional	Subset Of	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	5	
3.10.2[d]	N/A	the support infrastructure for that system is monitored.	Functional	Intersects With	Intrusion Alarms / Surveillance Equipment	PES-05.1	Physical access control mechanisms exist to monitor physical intrusion alarms and surveillance equipment.	5	
3.10.2[d]	N/A	the support infrastructure for that system is monitored.	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	
3.10.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.10.3[a]	N/A	visitors are escorted.	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	
3.10.3[a]	N/A	visitors are escorted.	Functional	Intersects With	Distinguish Visitors from On-Site Personnel	PES-06.1	Physical access control mechanisms exist to easily distinguish between onsite personnel and visitors, especially in areas where sensitive/regulated data is accessible.	5	
3.10.3[a]	N/A	visitors are escorted.	Functional	Intersects With	Restrict Unescorted Access	PES-06.3	Physical access control mechanisms exist to restrict unescorted access to facilities to personnel with required security clearances, formal access authorizations and validate the need for access.	5	
	N/A	visitor activity is monitored.	Functional	Intersects With	Visitor Control	PES-06	the need for access. 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	
3.10.3[b]							than a cab designated as publicly accessions.		



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SCF#	Secure Controls Framework (SCF)	Strength of Relationship	Notes (optional)
100	I DE Name	visitor activity is monitored.	Rationale	Relationship	Ser Control	301 #	Control Description Physical access control mechanisms exist to restrict	(optional)	Notes (optional)
3.10.3[b]	N/A	visitor activity is monitored.	Functional	Intersects With	Restrict Unescorted Access	PES-06.3	unescorted access to facilities to personnel with required security clearances, formal access authorizations and validate the need for access.	5	
3.10.4	N/A	Determine if audit logs of physical access are maintained.	Functional	Intersects With	Physical Access Logs	PES-03.3	Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress points.	5	
3.10.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.10.5[a]	N/A	physical access devices are identified.	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/ext points) to facilities (excluding those areas within the facility officially designated as publicly accessible).	5	
3.10.5[b]	N/A	physical access devices are controlled.	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	
3.10.5[c]	N/A	physical access devices are managed.	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	
3.10.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.10.6[a]	N/A	safeguarding measures for CUI are defined for alternate work sites.	Functional	Intersects With		PES-11	Physical security mechanisms exist to utilize appropriate management, operational and technical controls at alternate work sites.	5	
3.10.6[b]	N/A	safeguarding measures for CUI are enforced for alternate work sites.	Functional	Intersects With	Alternate Work Site	PES-11	Physical security mechanisms exist to utilize appropriate management, operational and technical controls at alternate work sites.	5	
3.11.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.11.1[a]	N/A	the frequency to assess risk to organizational operations, organizational assets, and individuals is defined.	Functional	Intersects With	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
3.11.1[b]	N/A	risk to organizational operations, organizational assets, and individuals resulting from the operation of an organizational system that processes, stores, or transmits CUI is assessed with the defined frequency.	Functional	Intersects With	Risk Assessment	RSK-04	Mechanisms exist to conduct recurring assessments of risk that includes the likelihood and magnitude of harm, from unauthorized access, use, disclosure, disruption, modification or destruction of the organization's systems and data.	5	
3.11.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.11.2[a]	N/A	the frequency to scan for vulnerabilities in an organizational system and its applications that process, store, or transmit CUI is defined.	Functional	Intersects With	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5	
3.11.2[b]	N/A	vulnerability scans are performed in an organizational system that processes, stores, or transmits CUI with the defined frequency.	Functional	Intersects With	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5	
3.11.2[c]	N/A	vulnerability scans are performed in an application that contains CUI with the defined frequency.	Functional	Intersects With	Vulnerability Scanning	VPM-06	Mechanisms exist to detect vulnerabilities and configuration errors by routine vulnerability scanning of systems and applications.	5	
3.11.2[d]	N/A	vulnerability scans are performed in an organizational system that processes, stores, or transmits CUI when new vulnerabilities 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	
3.11.2[e]	N/A	vulnerability scans are performed in an application that contains CUI when new vulnerabilities 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	
3.11.3	N/A	Determine If:	Functional	No Relationship		N/A	N/A	N/A	No requirements to map to.
3.11.3[a]	N/A	vulnerabilities are identified.	Functional	Intersects With	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
3.11.3[b]	N/A	vulnerabilities are remediated in accordance with risk assessments.	Functional	Intersects With	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	5	
3.12.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.12.1[a]	N/A	the frequency of security control assessments is defined.	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	
3.12.1[b]	N/A	security controls are assessed with the defined frequency to determine if the controls are effective in their application.	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	
3.12.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.12.2[a]	N/A	deficiencies and vulnerabilities to be addressed by the plan of action are identified.	Functional	Intersects With	Plan of Action & Milestones (POA&M)	IAO-05	Mechanisms exist to generate a Plan of Action and Milestones (POASM), 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	
3.12.2[b]	N/A	a plan of action is developed to correct identified deficiencies and reduce or eliminate identified vulnerabilities.	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	
3.12.2[c]	N/A	the plan of action is implemented to correct identified deficiencies and reduce or eliminate identified vulnerabilities.	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	5	
3.12.3	N/A	Determine if security controls are monitored on an ongoing basis to ensure the continued effectiveness of those controls.	Functional	Intersects With	Cybersecurity & Data Protection Controls Oversight	CPL-02	eliminate known vulnerabilities. Mechanisms exist to provide a cybersecurity & data protection controls oversight function that reports to the organization's executive leadership.	5	
3.12.4	N/A	Determine If:	Functional	No Relationship		N/A	N/A	N/A	No requirements to map to.
		a system security plan is developed.					Mechanisms exist to generate System Security & Privacy Plans		
3.12.4[a]	N/A		Functional	Intersects With	System Security & Privacy Plan (SSPP)	IAO-03	(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.	5	
3.12.4[b]	N/A	the system boundary is described and documented in the system security plan.	Functional	Intersects With	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.	5	
3.12.4[c]	N/A	the system environment of operation is described and documented in the system security plan.	Functional	Intersects With	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.	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)
		the security requirements identified and approved by the designated					Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and	(optional)	
3.12.4[d]	N/A	authority as non-applicable are identified.	Functional	Intersects With	System Security & Privacy	IAO-03	maintain key architectural information on each critical system,	5	
					Plan (SSPP)		application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical		
		the method of security requirement implementation is described and					record of the data and its origins. Mechanisms exist to generate System Security & Privacy Plans		
3.12.4[e]	N/A	documented in the system security plan.	Functional	Intersects With	System Security & Privacy	IAO-03	(SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical system,	5	
3.12.4[6]	N/A		Talletionat	interacts with	Plan (SSPP)	140-03	application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical	3	
		the relationship with or connection to other systems is described and					record of the data and its origins. Mechanisms exist to generate System Security & Privacy Plans		
		documented in the system security plan.			Custom Consults & Drivens		(SSPPs), or similar document repositories, to identify and		
3.12.4[f]	N/A		Functional	Intersects With	System Security & Privacy Plan (SSPP)	IAO-03	maintain key architectural information on each critical system, application or service, as well as influence inputs, entities,	5	
							systems, applications and processes, providing a historical record of the data and its origins.		
		the frequency to update the system security plan is defined.					Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and		
3.12.4[g]	N/A		Functional	Intersects With	System Security & Privacy Plan (SSPP)	IAO-03	maintain key architectural information on each critical system, application or service, as well as influence inputs, entities,	5	
							systems, applications and processes, providing a historical record of the data and its origins.		
		system security plan is updated with the defined frequency.					Mechanisms exist to generate System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and		
3.12.4[h]	N/A		Functional	Intersects With	System Security & Privacy	IAO-03	maintain key architectural information on each critical system,	5	
					Plan (SSPP)		application or service, as well as influence inputs, entities, systems, applications and processes, providing a historical		
3.13.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	record of the data and its origins. N/A	N/A	No requirements to map to.
	1071	the external system boundary is defined.	Tanononat	140 Hotationomp	10/1	1071	Mechanisms exist to monitor and control communications at	1077	no requirements to map to:
3.13.1[a]	N/A		Functional	Intersects With	Boundary Protection	NET-03	the external network boundary and at key internal boundaries within the network.	5	
3.13.1[b]	N/A	key internal system boundaries are defined.	Functional	Intersects With	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries	5	
		communications are monitored at the external system boundary.					within the network. Mechanisms exist to monitor and control communications at		
3.13.1[c]	N/A	communications are monitored at the external system boundary.	Functional	Intersects With	Boundary Protection	NET-03	the external network boundary and at key internal boundaries within the network.	5	
		communications are monitored at key internal boundaries.					Mechanisms exist to monitor and control communications at	_	
3.13.1[d]	N/A		Functional	Intersects With	Boundary Protection	NET-03	the external network boundary and at key internal boundaries within the network.	5	
3.13.1[e]	N/A	communications are controlled at the external system boundary.	Functional	Intersects With	Guest Networks	NET-02.2	Mechanisms exist to implement and manage a secure guest network.	5	
3.13.1[e]	N/A	communications are controlled at the external system boundary.	Functional	Intersects With	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries	5	
		communications are controlled at key internal boundaries.					within the network. Mechanisms exist to monitor and control communications at		
3.13.1[f]	N/A	Sommanications are controlled at any meeting boundaries.	Functional	Intersects With	Boundary Protection	NET-03	the external network boundary and at key internal boundaries	5	
3.13.1[g]	N/A	communications are protected at the external system boundary.	Functional	Intersects With	Guest Networks	NET-02.2	within the network. Mechanisms exist to implement and manage a secure guest	5	
		communications are protected at the external system boundary.					network. Mechanisms exist to monitor and control communications at		
3.13.1[g]	N/A		Functional	Intersects With	Boundary Protection	NET-03	the external network boundary and at key internal boundaries within the network.	5	
l									
3.13.1[h]	N/A	communications are protected at key internal boundaries.	Functional	Intersects With	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries	5	
							the external network boundary and at key internal boundaries within the network.		
3.13.1[h] 3.13.2	N/A N/A	Determine If:	Functional	Intersects With	Boundary Protection N/A	NET-03	the external network boundary and at key internal boundaries within the network. N/A	5 N/A	No requirements to map to.
					N/A Secure Engineering		the external network boundary and at key internal boundaries within the network. N/A Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the		No requirements to map to.
3.13.2	N/A	Determine If: architectural designs that promote effective information security are identified.	Functional	No Relationship	N/A Secure Engineering Principles	N/A	the external network boundary and at key internal boundaries within the network. N/A 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.	N/A	No requirements to map to.
3.13.2	N/A	Determine If: architectural designs that promote effective information security are	Functional	No Relationship	N/A Secure Engineering Principles Secure Software Development Practices	N/A	the external network boundary and at key internal boundaries within the network. N/A Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and	N/A	No requirements to map to.
3.13.2 3.13.2[a]	N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information	Functional	No Relationship Subset Of	N/A Secure Engineering Principles Secure Software Development Practices (SSDP)	N/A SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to facilitate the implementation of industry-	N/A 10	No requirements to map to.
3.13.2 3.13.2[a]	N/A N/A	Determine if: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified.	Functional	No Relationship Subset Of	N/A Secure Engineering Principles Secure Software Development Practices	N/A SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).	N/A 10	No requirements to map to.
3.13.2[a] 3.13.2[b]	N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified.	Functional Functional	No Relationship Subset Of Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering	N/A SEA-01 TDA-06	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the	N/A 10 5	No requirements to map to.
3.13.2[a] 3.13.2[b]	N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information	Functional Functional	No Relationship Subset Of Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering	N/A SEA-01 TDA-06	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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.	N/A 10 5	No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c]	N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. Identified architectural designs that promote effective information security are employed.	Functional Functional Functional	No Relationship Subset Of Intersects With Subset Of	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles	N/A SEA-01 TDA-06 SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services.	N/A 10 5 10	No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c]	N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information	Functional Functional Functional	No Relationship Subset Of Intersects With Subset Of	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices	N/A SEA-01 TDA-06 SEA-01	the external network boundary and at key internal boundaries within the network. NIA 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on focure Software Development Practices (SSDP). Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, diesign, development, implementation and modification of systems and services. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and	N/A 10 5 10	No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d]	N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. Identified software development techniques that promote effective information security are employed.	Functional Functional Functional Functional	No Relationship Subset Of Intersects With Subset Of Subset Of	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP)	N/A SEA-01 TDA-06 SEA-01 SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).	N/A 10 5 10 10	No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d]	N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. Identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed.	Functional Functional Functional Functional	No Relationship Subset Of Intersects With Subset Of Subset Of	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices	N/A SEA-01 TDA-06 SEA-01 SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. Mechanisms exist to facilitate the specification design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and	N/A 10 5 10 10	No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[e]	N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified software development techniques that promote effective information security are employed.	Functional Functional Functional Functional Functional Functional Functional	No Relationship Subset Of Intersects With Subset Of Subset Of Intersects With Subset Of	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Software Development Practices (SSDP) Secure Engineering Principles	N/A SEA-01 TDA-06 SEA-01 SEA-01 TDA-06 SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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.	N/A 10 5 10 10 5 10 10	
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[f] 3.13.3[f]	N/A N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. Identified software development techniques that promote effective information security are employed.	Functional Functional Functional Functional Functional Functional Functional Functional	No Relationship Subset Of Intersects With Subset Of Subset Of Intersects With No Relationship	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles NOVA	N/A SEA-01 TDA-06 SEA-01 SEA-01 TDA-06 SEA-01 N/A	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. Mechanisms exist to facilitate the specification design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and	N/A 10 5 10 10 5 10 N/A	No requirements to map to. No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[f] 3.13.3[a]	NIA	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed.	Functional	No Relationship Subset Of Intersects With Subset Of Subset Of Intersects With No Relationship	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Nous	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 SEA-01 SEA-01	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification of systems and services. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. N/A Mechanisms exist to separate user functionality from system management functionality.	N/A 10 5 10 10 5 10 N/A 5 10	
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[f] 3.13.3[a] 3.13.3[b]	N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified.	Functional	No Relationship Subset Of Intersects With Subset Of Subset Of Intersects With No Relationship Intersects With Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Note The Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 SEA-01 SEA-02 SEA-03-2	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to development, implementation and modification of systems and services. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality.	N/A 10 5 10 10 5 10 N/A 5 5 5	
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[f] 3.13.3[a] 3.13.3[a] 3.13.3[b]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are employed. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified. user functionality is separated from system management functionality.	Functional	No Relationship Subset Of Intersects With Subset Of Intersects With Subset Of Intersects With Intersects With Intersects With Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 SEA-03.2 SEA-03.2	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices in the specification, design, development, implementation and modification of systems and services. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality.	N/A 10 5 10 10 10 N/A 5 5 5 5	
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[f] 3.13.3[a] 3.13.3[a] 3.13.3[b] 3.13.3[c] 3.13.3[c]	N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified.	Functional	No Relationship Subset Of Intersects With Subset Of Intersects With Subset Of Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Note The Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 SEA-01 SEA-02 SEA-03-2	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. Mechanisms exist to facilitate the implementation and modification of systems and services. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality.	N/A 10 5 10 10 5 10 N/A 5 5 5	
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[f] 3.13.3[a] 3.13.3[a] 3.13.3[b]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified. User functionality is separated from system management functionality. Determine If unauthorized and unintended information transfer via shared system resources is prevented. Determine If:	Functional	No Relationship Subset Of Intersects With Subset Of Intersects With Subset Of Intersects With Intersects With Intersects With Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning Application Partitioning Information in Shared	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 SEA-03.2 SEA-03.2	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development, implementation and modification of systems and services. 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices in the specification, design, development, implementation and modification of systems and services. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality.	N/A 10 5 10 10 10 N/A 5 5 5 5	
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3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[d] 3.13.3[a] 3.13.3[a] 3.13.3[b] 3.13.4 3.13.5 3.13.5[a] 3.13.5[b] 3.13.5[b]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified. user functionality is separated from system management functionality. Determine if unauthorized and unintended information transfer via shared system resources is prevented. Determine If: publicly accessible system components are identified. subnetworks for publicly accessible system components are physically or logically separated from internal networks. Determine If:	Functional Functional	No Relationship Subset Of Intersects With Subset Of Subset Of Intersects With Subset Of No Relationship Intersects With No Relationship Intersects With No Relationship Intersects With No Relationship	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning Information In Shared Resources N/A Network Segmentation (macrosegementation) Network Segmentation (macrosegementation) Network Segmentation) Network Segmentation (macrosegementation) N/A Deny Traffic by Default & Allow Traffic by Exception	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 N/A SEA-03.2 SEA-03.2 SEA-03.2 SEA-05 N/A NET-06 N/A	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. 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. Mchanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functional	N/A 10 5 10 10 10 5 10 N/A 5 5 N/A 5 N/A 5	No requirements to map to. No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[d] 3.13.3[a] 3.13.3[a] 3.13.3[b] 3.13.4 3.13.5 3.13.5[a] 3.13.5[b] 3.13.5[b]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. Identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified. user functionality is separated from system management functionality. Determine if unauthorized and unintended information transfer via shared system resources is prevented. Determine If: publicly accessible system components are identified. subnetworks for publicly accessible system components are physically or logically separated from internal networks. Determine If: network communications traffic is denied by default.	Functional Functional	No Relationship Subset Of Intersects With Subset Of Subset Of Intersects With Subset Of No Relationship Intersects With No Relationship Intersects With No Relationship Intersects With No Relationship	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning Application Partitioning Information in Shared Resources N/A Network Segmentation (macrosegementation) Network Segmentation (macrosegementation) N/A Deny Traffic by Default &	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 N/A SEA-03.2 SEA-03.2 SEA-03.2 SEA-05 N/A NET-06 N/A	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. 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. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system sense of the system resources. N/A Mechanisms exist to separate user functionality from system neares the systems applications and services that protections from other network resources. N/A Mechanisms exist to configure firewall and r	N/A 10 5 10 10 10 5 10 N/A 5 5 N/A 5 N/A 5 N/A	No requirements to map to. No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[d] 3.13.3[a] 3.13.3[a] 3.13.3[b] 3.13.3[b] 3.13.5[a] 3.13.5[a] 3.13.5[a] 3.13.5[a] 3.13.5[a]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. Identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified. user functionality is separated from system management functionality. Determine if unauthorized and unintended information transfer via shared system resources is prevented. Determine If: publicly accessible system components are identified. subnetworks for publicly accessible system components are physically or logically separated from internal networks. Determine If: network communications traffic is denied by default.	Functional	No Relationship Subset Of Intersects With Subset Of Intersects With Subset Of Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning Application Partitioning Information in Shared Resources N/A Network Segmentation (macrosegementation) N/A Deny Traffic by Default & Altow Traffic by Exception	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 N/A SEA-03.2 SEA-03.2 SEA-03.2 SEA-05 N/A NET-06 N/A NET-06	the external network boundary and at key internal boundaries within the network. NIA 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system near transfer is a specification	N/A 10 5 10 10 10 5 10 N/A 5 5 N/A 5 N/A 5 N/A	No requirements to map to. No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[c] 3.13.2[d] 3.13.2[d] 3.13.2[f] 3.13.3[a] 3.13.3[a] 3.13.3[b] 3.13.3[b] 3.13.5[b] 3.13.5[a] 3.13.5[a] 3.13.5[a] 3.13.5[b]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are dentified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine if: user functionality is identified. system management functionality is identified. user functionality is separated from system management functionality. Determine if unauthorized and unintended information transfer via shared system resources is prevented. Determine if: publicly accessible system components are identified. subnetworks for publicly accessible system components are physically or togically separated from internal networks. Determine if: network communications traffic is denied by default. network communications traffic is allowed by exception. Determine if remote devices are prevented from simultaneously establishing non-remote connections with the system and	Functional	No Relationship Subset Of Intersects With Subset Of Intersects With Subset Of Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning Application Partitioning Information in Shared Resources N/A Network Segmentation (macrosegementation) N/A Deny Traffic by Default & Altow Traffic by Exception	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 N/A SEA-03.2 SEA-03.2 SEA-03.2 SEA-05 N/A NET-06 N/A NET-06	the external network boundary and at key internal boundaries within the network. NIA 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification design, development, implementation and modification of systems and services. Mechanisms exist to facilitate the implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation of industry-recognized cybersecurity & data privacy practices in the specification, design, development, implementation and modification of systems and services. MA Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to one of the properties of the systems and services that protections from other network resources. NA Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network resources. NA Mechanisms exist to ensure network	N/A 10 5 10 10 10 5 10 N/A 5 5 N/A 5 N/A 5 N/A	No requirements to map to. No requirements to map to.
3.13.2[a] 3.13.2[b] 3.13.2[c] 3.13.2[c] 3.13.2[d] 3.13.2[f] 3.13.3[a] 3.13.3[a] 3.13.3[b] 3.13.3[c] 3.13.5[a] 3.13.5[a] 3.13.5[a] 3.13.5[a] 3.13.5[a] 3.13.5[b] 3.13.5[b] 3.13.5[b]	N/A N/A N/A N/A N/A N/A N/A N/A	Determine If: architectural designs that promote effective information security are identified. software development techniques that promote effective information security are identified. systems engineering principles that promote effective information security are identified. systems engineering principles that promote effective information security are identified. identified architectural designs that promote effective information security are employed. identified software development techniques that promote effective information security are employed. identified systems engineering principles that promote effective information security are employed. Determine If: user functionality is identified. system management functionality is identified. user functionality is separated from system management functionality. Determine if unauthorized and unintended information transfer via shared system resources is prevented. Determine If: publicty accessible system components are identified. subnetworks for publicly accessible system components are physically or logically separated from internal networks. Determine If: network communications traffic is denied by default.	Functional	No Relationship Subset Of Intersects With Subset Of Intersects With Subset Of Intersects With No Relationship Intersects With Intersects With Intersects With No Relationship Intersects With	N/A Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles Secure Engineering Principles Secure Engineering Principles Secure Software Development Practices (SSDP) Secure Engineering Principles N/A Application Partitioning Application Partitioning Information in Shared Resources N/A Network Segmentation (macrosegementation) N/A Network Segmentation (macrosegementation) N/A Deny Traffic by Default & Allow Traffic by Exception	N/A SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 TDA-06 SEA-01 N/A SEA-03.2 SEA-03.2 SEA-03.2 SEA-03.2 N/A NET-06 N/A NET-06 N/A NET-04.1	the external network boundary and at key internal boundaries within the network. N/A 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. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. 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. Mechanisms exist to facilitate the implementation and modification of systems and services. Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP). 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. N/A Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to separate user functionality from system management functionality. Mechanisms exist to reverse to service and unintended information transfer via shared system resources. N/A Mechanisms exist to reverse to separate user functionality from system management functionality. Mechanisms exist to reverse to separate user functionality from system mana	N/A 10 5 10 10 5 10 N/A 5 5 N/A 5 N/A 5 5 N/A 5 5	No requirements to map to. 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)
3.13.8[a]	N/A	cryptographic mechanisms intended to prevent unauthorized disclosure of CUI are identified.	Functional	Subset Of	Use of Cryptographic Controls	CRY-01	Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public	10	
3.13.8[a]	N/A	cryptographic mechanisms intended to prevent unauthorized disclosure	Functional	Intersects With	Transmission	CRY-03	standards and trusted cryptographic technologies. Cryptographic mechanisms exist to protect the confidentiality	5	
3.13.8[b]	N/A	of CUI are identified. alternative physical safeguards intended to prevent unauthorized disclosure of CUI are identified.	Functional	Intersects With	Confidentiality Alternate Physical	CRY-01.1	of data being transmitted. Cryptographic mechanisms exist to prevent unauthorized disclosure of information as an alternative to physical	5	
		either cryptographic mechanisms or alternative physical safeguards are			Protection Alternate Physical		safeguards. Cryptographic mechanisms exist to prevent unauthorized		
3.13.8[c]	N/A	implemented to prevent unauthorized disclosure of CUI during transmission.	Functional	Intersects With	Protection	CRY-01.1	disclosure of information as an alternative to physical safeguards.	5	
3.13.9	N/A	Determine If: a period of inactivity to terminate network connections associated with	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to terminate network connections at the end	N/A	No requirements to map to.
3.13.9[a]	N/A	communications sessions is defined.	Functional	Intersects With	Network Connection Termination	NET-07	of a session or after an organization-defined time period of inactivity.	5	
3.13.9[b]	N/A	network connections associated with communications sessions are terminated at the end of the sessions.	Functional	Intersects With	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.	5	
3.13.9[c]	N/A	network connections associated with communications sessions are terminated after the defined period of inactivity.	Functional	Intersects With	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.	5	
3.13.10	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.13.10[a]	N/A	cryptographic keys are established whenever cryptography is employed.	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.	5	
3.13.10[a]	N/A	cryptographic keys are established whenever cryptography is employed.	Functional	Intersects With	Cryptographic Key Management	CRY-09	Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability of keys.	5	
3.13.10[b]	N/A	cryptographic keys are managed whenever cryptography is employed.	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	5	
3.13.10[b]	N/A	cryptographic keys are managed whenever cryptography is employed.	Functional	Intersects With	Cryptographic Key Management	CRY-09	reputable PKI service provider. Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability	5	
3.13.11	N/A	Determine if FIPS-validated cryptography is employed to protect the confidentiality of CUI.	Functional	Subset Of	Use of Cryptographic	CRY-01	of keys. Mechanisms exist to facilitate the implementation of cryptographic protections controls using known public	10	
		Determine if FIPS-validated cryptography is employed to protect the			Controls Transmission		standards and trusted cryptographic technologies. Cryptographic mechanisms exist to protect the confidentiality		
3.13.11	N/A N/A	confidentiality of CUI. Determine If:	Functional	Intersects With	Confidentiality N/A	CRY-03	of data being transmitted.	5	No requirements to map to.
3.13.12	N/A	collaborative computing devices are identified.	Functional	No Relationship	N/A	N/A	Mechanisms exist to unplug or prohibit the remote activation of	N/A	No requirements to map to.
3.13.12[a]	N/A		Functional	Intersects With	Collaborative Computing Devices	END-14	collaborative computing devices with the following exceptions: (1) Networked whiteboards; (2) Video teleconference cameras; and (3) Teleconference microphones.	5	
3.13.12[b]	N/A	collaborative computing devices provide indication to users of devices in use.	Functional	Intersects With	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 (3) Teleconference microphones.	5	
3.13.12[c]	N/A	remote activation of collaborative computing devices is prohibited.	Functional	Intersects With	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 (3) Teleconference microphones.	5	
3.13.13	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.13.13[a]	N/A	use of mobile code is controlled.	Functional	Intersects With	Mobile Code	END-10	Mechanisms exist to address mobile code / operating system- independent applications.	5	
3.13.13[b]	N/A	use of mobile code is monitored.	Functional	Intersects With	Mobile Code	END-10	Mechanisms exist to address mobile code / operating system- independent applications.	5	
3.13.14	N/A	Determine If: use of Voice over Internet Protocol (VoIP) technologies is controlled.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to protect the confidentiality, integrity and	N/A	No requirements to map to.
3.13.14[a]	N/A	use of Voice over Internet Protocol (VoIP) technologies is monitored.	Functional	Intersects With	Electronic Messaging	NET-13	availability of electronic messaging communications. Mechanisms exist to protect the confidentiality, integrity and	5	
3.13.14[b] 3.13.15	N/A	Determine if the authenticity of communications sessions is protected.	Functional	Intersects With	Electronic Messaging	NET-13 NET-09	availability of electronic messaging communications. Mechanisms exist to protect the authenticity and integrity of	5	
3.13.15	N/A	Determine if the confidentiality of CUI at rest is protected.	Functional	Intersects With	Session Integrity Endpoint Protection		communications sessions. Mechanisms exist to protect the confidentiality, integrity,	5	
3.13.16	N/A N/A	Determine If:	Functional	No Relationship	Measures N/A	END-02 N/A	availability and safety of endpoint devices. N/A	N/A	No requirements to map to.
3.14.1[a]	N/A	the time within which to identify system flaws is specified.	Functional	Subset Of	Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	no requirements to map to.
3.14.1[b]	N/A	system flaws are identified within the specified time frame.	Functional	Subset Of	(VPMP) Vulnerability & Patch Management Program	VPM-01	Mechanisms exist to facilitate the implementation and	10	
3.14.1[c]	N/A	the time within which to report system flaws is specified.	Functional	Subset Of	(VPMP) Vulnerability & Patch Management Program	VPM-01	monitoring of vulnerability management controls. Mechanisms exist to facilitate the implementation and	10	
3.14.1[d]	N/A	system flaws are reported within the specified time frame.	Functional	Subset Of	(VPMP) Vulnerability & Patch Management Program	VPM-01	monitoring of vulnerability management controls. Mechanisms exist to facilitate the implementation and	10	
3.14.1[e]	N/A	the time within which to correct system flaws is specified.	Functional	Subset Of	(VPMP) Vulnerability & Patch Management Program	VPM-01	monitoring of vulnerability management controls. Mechanisms exist to facilitate the implementation and	10	
3.14.1[f]	N/A	system flaws are corrected within the specified time frame.	Functional	Subset Of	(VPMP) Vulnerability & Patch Management Program	VPM-01	monitoring of vulnerability management controls. Mechanisms exist to facilitate the implementation and	10	
3.14.2	N/A	Determine If:	Functional	No Relationship	(VPMP) N/A	N/A	monitoring of vulnerability management controls. N/A	N/A	No requirements to map to.
<u> </u>		designated locations for malicious code protection are identified.			Malicious Code		Mechanisms exist to utilize antimalware technologies to detect		- Squiromond to map to.
3.14.2[a]	N/A	protection from malicious code at designated locations is provided.	Functional	Intersects With	Protection (Anti-Malware) Malicious Code	END-04	and eradicate malicious code. Mechanisms exist to utilize antimalware technologies to detect	5	
3.14.2[b]	N/A		Functional	Intersects With	Protection (Anti-Malware)	END-04	and eradicate malicious code.	5	
3.14.3	N/A	Determine If: response actions to system security alerts and advisories are identified.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to review event logs on an ongoing basis and	N/A	No requirements to map to.
3.14.3[a]	N/A		Functional	Intersects With	Security Event Monitoring	MON-01.8	escalate incidents in accordance with established timelines and procedures.	5	
3.14.3[b]	N/A	system security alerts and advisories are monitored.	Functional	Intersects With	Security Event Monitoring	MON-01.8	Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures.	5	
3.14.3[c]	N/A	actions in response to system security alerts and advisories are taken.	Functional	Intersects With	Security Event Monitoring	MON-01.8	Mechanisms exist to review event logs on an ongoing basis and escalate incidents in accordance with established timelines and procedures.	5	
3.14.4	N/A	Determine if malicious code protection mechanisms are updated when new releases are available.	Functional	Intersects With	Automatic Antimalware Signature Updates	END-04.1	Mechanisms exist to automatically update antimalware technologies, including signature definitions.	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 (optional)	Notes (optional)
3.14.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.14.5[a]	N/A	the frequency for malicious code scans is defined.	Functional	Intersects With	Malicious Code Protection (Anti-Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
3.14.5[b]	N/A	malicious code scans are performed with the defined frequency.	Functional	Intersects With	Malicious Code Protection (Anti-Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
3.14.5[c]	N/A	real-time malicious code scans of files from external sources as files are downloaded, opened, or executed are performed.	Functional	Intersects With	Malicious Code Protection (Anti-Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
3.14.5[c]	N/A	real-time malicious code scans of files from external sources as files are downloaded, opened, or executed are performed.	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	
3.14.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.14.6[a]	N/A	the system is monitored to detect attacks and indicators of potential attacks.	Functional	Intersects With	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	5	
3.14.6[b]	N/A	inbound communications traffic is monitored to detect attacks and indicators of potential attacks.	Functional	Intersects With	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	5	
3.14.6[c]	N/A	outbound communications traffic is monitored to detect attacks and indicators of potential attacks.	Functional	Intersects With	Inbound & Outbound Communications Traffic	MON-01.3	Mechanisms exist to continuously monitor inbound and outbound communications traffic for unusual or unauthorized activities or conditions.	5	
3.14.7	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.14.7[a]	N/A	authorized use of the system is defined.	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	
3.14.7[b]	N/A	unauthorized use of the system is identified.	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	

