NIST IR 8477-Based Set Theory Relationship Mapping (STRM)
Reference Document: Secure Controls Framework (SCF) version 2025.3
STRM Guidance: https://securecontrolsframework.com/set-theory-relationship-mapping-strm/

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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)
3.1.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.1[a]®	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	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	temporary accounts. Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and	5	
3.1.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	temporary accounts. 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	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	non-digital media to authorized individuals. 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	5	
3.1.3[c]	N/A	designated 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	NET-04	data access. 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	(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[e]	N/A	approved authorizations for controlling the flow of CUI are enforced.	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	
3.1.4	N/A	Determine If:	Functional	No Relationship	(ACLs)	N/A	restrict network traffic to only what is authorized. 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	HRS-11	Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without	7	No requirements to map to.
3.1.4[b]	N/A	organization-defined duties of individuals requiring separation are separated.	Functional	Intersects With	(SoD) Separation of Duties	HRS-11	collusion. Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without	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	Functional	Intersects With	(SoD) Separation of Duties	HRS-11	Collusion. Mechanisms exist to implement and maintain Separation of Duties (SoD) to prevent potential inappropriate activity without	7	
		established			(SoD)		collusion.		
3.1.5	N/A	Determine If: privileged accounts are identified.	Functional	No Relationship	N/A Privileged Account	N/A	N/A Mechanisms exist to uniquely manage privileged accounts to	N/A	No requirements to map to
3.1.5[a] 3.1.5[b]	N/A N/A	access to privileged accounts is authorized in accordance with the principle of least privilege.	Functional Functional	Intersects With	Identifiers Least Privilege	IAC-09.5	identify the account as a privileged user or service. 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	5	
		access to security functions is authorized in accordance with the					accomplish assigned tasks in accordance with organizational business functions. Mechanisms exist to utilize the concept of least privilege,		
3.1.5[d]	N/A	principle of least privilege.	Functional	Intersects With	Least Privilege	IAC-21	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,	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 altering implemented security safeguards / countermeasures. Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabling. 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	IAC-21.5	Countermeasures. Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabiling, circumventing or altering implemented security safeguards /	5	
3.1.7[d]	N/A	the execution of privileged functions is captured in audit logs.	Functional	Intersects With	Privileged Functions Prohibit Non-Privileged Users from Executing	IAC-21.5	Countermeasures. Mechanisms exist to prevent non-privileged users from executing privileged functions to include disabiling, circumventing or altering implemented security safeguards /	5	
	N/A	Determine If:	Functional	No Relationship	Privileged Functions N/A	N/A	countermeasures. N/A	N/A	No requirements to map to
3.1.8									

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FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship	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)	
3.1.9		Determine If:				N/A	period and automatically locks the account when the maximum number of unsuccessful attempts is exceeded. N/A		
3.1.9[a]	N/A N/A	privacy and security notices required by CUI-specified rules are identified, consistent, and associated with the specific CUI category	Functional	No Relationship	System Use Notification (Logon Banner)	N/A 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	N/A 5	No requirements to map to.
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	Standardized Microsoft Windows Banner	SEA-18.1	provides cybersecurity and data protection notices. Mechanisms exist to configure Microsoft Windows-based systems to display an approved logon banner before granting access to the system that provides cybersecurity and data	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	protection notices. Mechanisms exist to utilize a truncated system use notification / logon banner on systems not capable of displaying a logon	5	
3.1.9[b]	N/A	privacy and security notices are displayed.	Functional	Intersects With	System Use Notification (Logon Banner)	SEA-18	banner from a centralized source, such as Active Directory. 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 and data protection notices. Mechanisms exist to configure Microsoft Windows-based systems to display an approved logon banner before granting access to the system that provides cybersecurity and data	5	
3.1.9[b]	N/A	privacy and security notices are displayed.	Functional	Intersects With	Truncated Banner	SEA-18.2	protection 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 map to.
3.1.10[a]	N/A	the period of inactivity after which the system initiates a session lock is defined.	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	
3.1.10[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	authentication methods. 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 concealed 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 authentication methods.	5	
3.1.11	N/A	Determine If:	Functional	No Relationship	N/A	N/A	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] 3.1.12[d]	N/A N/A	remote access sessions are monitored.	Functional	Intersects With	Control Automated Monitoring &	NET-14.1	access sessions. Automated mechanisms exist to monitor and control remote	5	
3.1.13	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 Using Encryption	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	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 Points	NET-14.3	Mechanisms exist to route all remote accesses through managed network access control points (e.g., VPN concentrator). Mechanisms exist to route all remote accesses through	5	
3.1.14[b]	N/A	remote access is routed through managed network access control points.	Functional	Intersects With	Managed Access Control Points	NET-14.3	managed network access control points (e.g., VPN concentrator).	5	
3.1.15	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	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 Data Access	NET-14.4	Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs.	5	
3.1.15[b]	N/A	security-relevant information authorized to be accessed remotely is identified.	Functional	Intersects With	Remote Privileged Commands & Sensitive Data Access	NET-14.4	Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs.	5	
3.1.15[c]	N/A	the execution of the identified privileged commands via remote access is authorized.	Functional	Intersects With	Remote Privileged Commands & Sensitive Data Access	NET-14.4	Mechanisms exist to restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs.	5	
3.1.15[d]	N/A	access to the identified security-relevant information via remote access is authorized.	Functional	Intersects With	Remote Privileged Commands & Sensitive Data Access	NET-14.4	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: wireless access points are identified.	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to control authorized wireless usage and	N/A	No requirements to map to.
3.1.16[a] 3.1.16[b]	N/A N/A	wireless access is authorized prior to allowing such connections.	Functional	Intersects With	Wireless Networking Wireless Networking	NET-15 NET-15	monitor for unauthorized wireless access. Mechanisms exist to control authorized wireless usage and	5	
3.1.17	N/A	Determine If:	Functional	No Relationship	N/A	N/A	monitor for unauthorized wireless access. N/A	N/A	No requirements to map to.
3.1.17[a]	N/A	wireless access to the system is protected using encryption.	Functional	Intersects With	Authentication & Encryption	NET-15.1	Mechanisms exist to secure Wi-Fi (e.g., IEEE 802.11) and prevent unauthorized access by: (1) Authenticating devices trying to connect; and (2) Encrypting transmitted data.	5	
3.1.17[b]	N/A	wireless access to the system is protected using authentication.	Functional	Intersects With	Authentication & Encryption	NET-15.1	Mechanisms exist to secure Wi-Fi (e.g., IEEE 802.11) and prevent unauthorized access by: (1) Authenticating devices trying to connect; and (2) Encrypting transmitted data.	5	
3.1.18	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.1.18[a]	N/A	mobile devices that process, store, or transmit CUI are identified.	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 Technology Assets, Applications and/or Services (TAAS).	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)
3.1.18[b]	N/A	the connection of mobile devices is authorized.	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 Technology Assets, Applications and/or Services (TAAS).	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 Technology Assets, Applications and/or Services (TAAS).	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- Based Encryption	MDM-03	Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container encryption.	5	
3.1.19[b]	N/A	encryption is employed to protect CUI on identified mobile devices and mobile computing platforms.	Functional	Intersects With	Full Device & Container- Based Encryption	MDM-03	Cryptographic mechanisms exist to protect the confidentiality and integrity of information on mobile devices through full-device or container 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, including Technology Assets, Applications and/or Services (TAAS), 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 Information Systems	DCH-13	Mechanisms exist to govern how external parties, including Technology Assets, Applications and/or Services (TAAS), are used to securely store, process and transmit data.	5	
3.1.20[c]	N/A	connections to external systems are verified.	Functional	Intersects With	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, including Technology Assets, Applications and/or Services (TAAS), are used to securely store, process and transmit data.	5	
3.1.20[d]	N/A	use of external systems is verified.	Functional	Intersects With	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, including Technology Assets, Applications and/or Services (TAAS), 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, including Technology Assets, Applications and/or Services (TAAS), 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, including Technology Assets, Applications and/or Services (TAAS), 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	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. individuals authorized to post or process information on publicly	Functional	Intersects With	Publicly Accessible Content	DCH-15	Mechanisms exist to control publicly-accessible content. Mechanisms exist to utilize a Demilitarized Zone (DMZ) to	5	
3.1.22[a]	N/A	accessible systems are identified.	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	restrict inbound traffic to authorized Technology Assets, Applications and/or Services (TAAS) on certain services, protocols and ports.	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	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 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[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 Technology Assets, Applications and/or Services (TAAS) on certain services, protected and ports.	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	Mechanisms exist to deptoy 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[c]	N/A	a review process in in place prior to posting of any content to publicly accessible systems.	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[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 Technology Assets, Applications and/or Services (TAAS) on certain services,	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	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 expired.	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	based service. 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	Functional	Intersects With	Sensitive Data In Public	CLD-10	Mechanisms exist to limit and manage the storage of	5	
3.1.22[d]	N/A	ensure that it does not include CUI. content on publicly accessible information systems is reviewed to	Functional	Intersects With	Cloud Providers Publicly Accessible	DCH-15	sensitive/regulated data in public cloud providers. Mechanisms exist to control publicly-accessible content.	5	
3.1.22[d]	N/A	ensure that it does not include CUI. content on publicly accessible information systems is reviewed to ensure that it does not include CUI.	Functional	Intersects With	Content Use of Demilitarized Zones (DMZ)	WEB-02	Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized Technology Assets, Applications and/or Services (TAAS) on certain services,	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	<u>orotocols</u> and <u>ports</u> . 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	



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)
3.1.22[e]	N/A	mechanisms are in place to remove and address improper posting of	Functional	Intersects With	Sensitive Data In Public	CLD-10	Mechanisms exist to limit and manage the storage of	(optional) 5	
3.1.22[e]	N/A	CUI. mechanisms are in place to remove and address improper posting of	Functional	Intersects With	Cloud Providers Publicly Accessible	DCH-15	sensitive/regulated data in public cloud providers.	5	
3.1.22[e]	N/A	CUI. mechanisms are in place to remove and address improper posting of	Functional	IIITEISECIS WITTI	Content	DON-15	Mechanisms exist to control publicly-accessible content. Mechanisms exist to utilize a Demilitarized Zone (DMZ) to	5	
3.1.22[e]	N/A	CUI. mechanisms are in place to remove and address improper posting of	Functional	Intersects With	Use of Demilitarized Zones (DMZ)	WEB-02	restrict inbound traffic to authorized Technology Assets, Applications and/or Services (TAAS) on certain services, protocols and ports.	5	
3.1.22[e]	N/A	mechanisms are in piace to remove and address improper posting of 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	
3.2.1	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 Protection 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 Protection 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. managers, systems administrators, and users of the system are made	Functional	Intersects With	Cybersecurity & Data Protection Awareness Training Cybersecurity & Data	SAT-02	Mechanisms exist to provide all employees and contractors appropriate awareness education and training that is relevant for their job function. Mechanisms exist to provide all employees and contractors	5	
3.2.1[d]	N/A	aware of the applicable policies, standards, and procedures related to the security of the system.	Functional	Intersects With	Protection Awareness Training	SAT-02	appropriate awareness education and training that is relevant for their job function.	5	
3.2.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.2.2[a]	N/A	information security-related duties, roles, and responsibilities are defined.	Functional	Subset Of	Human Resources Security Management	HRS-01	Mechanisms exist to facilitate the implementation of personnel security controls.	10	
3.2.2[a]	N/A	information security-related duties, roles, and responsibilities are defined.	Functional	Intersects With	Role-Based Cybersecurity & Data Protection Training	SAT-03	Mechanisms exist to provide role-based cybersecurity and data protection-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 Protection Training	SAT-03	Mechanisms exist to provide role-based cybersecurity and data protection-related trianing: (I) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and (3) Annually 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 Protection Training	SAT-03	Mechanisms exist to provide role-based cybersecurity and data protection-related training: (1) Before authorizing access to the system or performing assigned duties; (2) When required by system changes; and	5	
3.2.3	N/A	Salara la Maria de Caración de	Frankland	No Beledinastia	N/A	N/A	(3) Annually thereafter.	N/4	N
3.2.3[a]	N/A N/A	Determine If: potential indicators associated with insider threats are identified.	Functional	No Relationship	N/A Insider Threat Awareness	N/A THR-05	Mechanisms exist to utilize security awareness training on recognizing and reporting potential indicators of insider threat.	N/A 5	No requirements to map to.
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]	N/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.	Functional	Intersects With	Content of Event Logs	MON-03	Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event.	5	
3.3.1[a]	n/a N/a	monitoring, analysis, investigation, and reporting of unlawful or	Functional	Intersects With			and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event.	5	
		monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified. the content of audit records needed to support monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity is defined.			Content of Event Logs	MON-03	and/or Services (TAAS) 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; (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 Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to link system access to individual users or service accounts.	5	
3.3.1[b]	NA	monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified. the content of audit records needed to support monitoring, analysis, 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	Intersects With	Content of Event Logs Content of Event Logs	MON-03	and/or Services (TASS) 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 source of the event; (6) The bidentity of any user/subject associated with the event. Mechanisms exist to configure Technology Assets, Applications and/or Services (TAS) 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; and (6) The identity of any user/subject associated with the event. Mechanisms exist to to infigure Technology Assets, Applications and/or Services (TAS) to produce event logs that contain sufficient formation to, at a minimum: (1) Establish what type of event occurred; (3) Where the event occurred; (4) The source of the event; (5) The source of the event to courred; (6) The identity of the event occurred; (6) The source of the event; (6) The source of the event; (6) The source of the event; (6) The identity of any user/subject associated with the event.	5	
3.3.1[b] 3.3.1[c]	N/A N/A	monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified. the content of audit records needed to support monitoring, analysis, 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	Intersects With	Content of Event Logs Content of Event Logs Audit Traits	MON-03	and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) 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; (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 configure Technology Assets, Applications and/or Services (TAAS) 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) The outcome (success or failure) of the event; (5) The outcome (success or failure) of the event; (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 5	
3.3.1[b] 3.3.1[c] 3.3.1[d]	N/A N/A N/A	monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified. the content of audit records needed to support monitoring, analysis, 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	Content of Event Logs Content of Event Logs Audit Traits Content of Event Logs	MON-03 MON-03.2	and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (late 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 Technology Assets, Applications and/or Services (TAAS) 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; 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 onfigure Technology Assets, Applications and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (and 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 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; and (6) The identity of any user/subject associated with the event. Mechanisms exist to retain event logs for a time period consistent with necords retention requirements to provide support for after-the-fact investigations of security incidents and to meet statefutor, regulatory and contractual retention	5 5 5	
3.3.1[b] 3.3.1[c] 3.3.1[d] 3.3.1[e]	N/A N/A N/A	monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified. the content of audit records needed to support monitoring, analysis, 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 Functional	Intersects With Intersects With Intersects With Intersects With	Content of Event Logs Content of Event Logs Audit Traits Content of Event Logs Event Log Retention	MON-03 MON-03.2 MON-03	and/or Services (TASS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to configure Technology Assets, Applications and/or Services (TASS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to configure Technology Assets, Applications and/or Services (TASS) 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 source of the event; (6) The source of the event occurred; (6) The source of the event; (6) The outcome (success or failure) of the event; (7) Establish what type of event occurred; (8) Where the event occurred; (9) The source of the event; (10) The source of the event; (11) Establish what type of event occurred; (12) When (date and time) the event occurred; (13) The outcome (success or failure) of the event; (14) The source of the event; (15) The outcome (success or failure) of the event; (16) The outcome failure, and the event occurred; (17) The outcome failure event togs 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[e] 3.3.1[d] 3.3.1[e]	N/A N/A N/A	monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity are specified. the content of audit records needed to support monitoring, analysis, 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 Functional	Intersects With Intersects With Intersects With Intersects With	Content of Event Logs Content of Event Logs Audit Traits Content of Event Logs Event Log Retention Event Log Retention	MON-03 MON-03.2 MON-03 MON-03	and/or Services (TAAS) to produce event logs that contain sufficient information to, at a minimum: (1) Establish what type of event occurred; (2) When (date and time) the event occurred; (3) Where the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) 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) When the event occurred; (4) The source of the event; (5) The outcome (success or failure) of the event; and (6) The identity of any user/subject associated with the event. Mechanisms exist to link system access to individual users or service accounts. Mechanisms exist to configure Technology Assets, Applications and/or Services (TAAS) 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) Where the event occurred; (3) The outcome (success or failure) of the event; (5) The outcome (success or failure) of the event; (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 5 5 5 NVA	No requirements to map to.



FDE#	EDE Nome	Focal Document Element (FDE) Description	STRM	STRM	SCE Cantral	SCF#	Secure Controls Framework (SCF)	Strength of	Notes (antional)
FDE#	FDE Name	the content of the audit records needed to support the ability to uniquely	Rationale	Relationship	SCF Control	SCF#	Control Description Mechanisms exist to ensure databases produce audit records	Relationship (optional)	Notes (optional)
3.3.2[a]	N/A	trace users to their actions is defined.	Functional	Intersects With	Database Logging	MON-03.7	that contain sufficient information to monitor database activities.	5	
3.3.2[b]	N/A	audit records, once created, contain the defined content.	Functional	Intersects With	Content of Event Logs	MON-03	Mechanisms exist to configure Technology Assets, Applications and/or Services (TAS) 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 railure) of the event; and (6) The oldcome (success or railure) of the event; and	5	
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 and procedures.	5	
3.3.3[b]	N/A	event types being logged are reviewed in accordance with the defined review process.	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	
3.3.3[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 and procedures.	5	
3.3.4	N/A	Determine If:	Functional	No Relationship	N/A	N/A	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 Processing Failures	MON-05	Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the disruption.	5	
3.3.4[b]	N/A	types of audit logging process failures for which alert will be generated are defined.	Functional	Intersects With	Response To Event Log Processing Failures	MON-05	Mechanisms exist to alert appropriate personnel in the event of a log processing failure and take actions to remedy the disruption.	5	
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 disruption.	5	
3.3.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.3.5[a]	N/A	audit record review, analysis, and reporting processes for investigation and response to indications of unlawful, unauthorized, suspicious, or unusual activity are 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	
3.3.5[b]	N/A	defined audit record review, analysis, and reporting processes are correlated.	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	
3.3.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	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 activities.	5	
3.3.6[b]	N/A	a report generation capability that supports on-demand reporting 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 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 Technology Assets, Applications and/or Services (TAAS) 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 Technology Assets, Applications and/or Services (TAAS) 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 Authoritative Time Source	MON-07.1	Mechanisms exist to synchronize internal system clocks with an authoritative time source.	5	
3.3.7[c]	N/A	internal system clocks used to generate time stamps for audit records 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. audit logging tools are protected from unauthorized access.	Functional		Protection of Event Logs	MON-08	Mechanisms exist to protect event logs and audit tools from unauthorized access, modification and deletion. Mechanisms exist to protect event logs and audit tools from	5	
3.3.8[d]	N/A	audit logging tools are protected from unauthorized access. audit logging tools are protected from unauthorized modification.	Functional	Intersects With	Protection of Event Logs	MON-08	unauthorized access, modification and deletion. Mechanisms exist to protect event logs and audit tools from	5	
3.3.8[e]	N/A	audit logging tools are protected from unauthorized modification. audit logging tools are protected from unauthorized deletion.	Functional	Intersects With	Protection of Event Logs	MON-08	unauthorized access, modification and deletion. Mechanisms exist to protect event logs and audit tools from	5	
3.3.8[f]	N/A		Functional	Intersects With	Protection of Event Logs	MON-08	unauthorized access, modification and deletion.	5	
3.3.9	N/A	Determine If: a subset of privileged users granted access to manage audit logging	Functional	No Relationship	N/A Access by Subset of	N/A	N/A Mechanisms exist to restrict access to the management of	N/A	No requirements to map to.
3.3.9[a] 3.3.9[b]	N/A N/A	functionality is defined. management of audit logging functionality is limited to the defined	Functional	Intersects With	Privileged Users Access by Subset of	MON-08.2 MON-08.2	event logs to privileged users with a specific business need. Mechanisms exist to restrict access to the management of	5	
3.4.1	N/A N/A	subset of privileged users. Determine If:	Functional	No Relationship	Privileged Users N/A	N/A	event logs to privileged users with a specific business need. N/A	N/A	No requirements to map to.
0.4.1	IVA	a baseline configuration is established.	Tunctiona(netationship	System Hardening	IV/A	Mechanisms exist to develop, document and maintain secure	IN/A	no requirements to map to.
3.4.1[a]	N/A		Functional	Intersects With	Through Baseline Configurations	CFG-02	baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted system hardening standards.	5	
3.4.1[a]	N/A	a baseline configuration is established.	Functional	Subset Of	Enterprise Device Management (EDM)	END-01	Mechanisms exist to facilitate the implementation of Enterprise Device Management (EDM) controls.	10	
3.4.1[b]	N/A	the baseline configuration includes hardware, software, firmware, and documentation.	Functional	Intersects With	System Hardening Through Baseline Configurations	CFG-02	Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry- accepted system hardening standards.	5	
3.4.1[b]	N/A	the baseline configuration includes hardware, software, firmware, and documentation.	Functional	Subset Of	Enterprise Device Management (EDM)	END-01	Mechanisms exist to facilitate the implementation of Enterprise Device Management (EDM) 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 Assets, Applications and/or Services (TAAS) 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	Enterprise Device Management (EDM)	END-01	Mechanisms exist to facilitate the implementation of Enterprise Device Management (EDM) controls.	10	

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EDE #	EDE Nome	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SOF#	Secure Controls Framework (SCF)	Strength of	Notes (antional)
FDE#	FDE Name	a sustam inventory is getablished	Rationale	Relationship	SCFControl	SCF#	Control Description Mechanisms exist to perform inventories of Technology Assets,	Relationship (optional)	Notes (optional)
3.4.1[d]	N/A	a system inventory is established.	Functional	Intersects With	Asset Inventories	AST-02	Applications, Services and/or Data (TASD) that: (1) Accurately reflects the current TASD in use; (2) Identifies authorized software products, including business justification details; (3) is at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational.	5	
3.4.1[e]	N/A	the system inventory includes hardware, software, firmware, and documentation.	Functional	Intersects With	Asset Inventories	AST-02	nersonnel Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that: (1) Accurately reflects the current TAASD) that: (2) Identifies authorized software products, including business justification details; (3) I at the level of granularity deemed necessary for tracking and reporting; (4) Includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational	5	
3.4.1[1]	N/A	the inventory is maintained (reviewed and updated) throughout the system development life cycle. the inventory is maintained (reviewed and updated) throughout the	Functional	Intersects With	Asset Inventories Updates During	AST-02	Mechanisms exist to perform inventories of Technology Assets, Applications, Services and/or Data (TAASD) that: (1) Accurately reflects the current TAASD in use; (2) Identifies authorized software products, including business justification details; (3) In at the level of granularity deemed necessary for tracking and reporting; (4) includes organization-defined information deemed necessary to achieve effective property accountability; and (5) Is available for review and audit by designated organizational necessaries.	5	
3.4.1[f]	N/A	system development life cycle.	Functional	Intersects With	Installations / Removals	AST-02.1	technologies (hardware and software).	5	N
3.4.2 3.4.2[a]	N/A N/A	Determine If: security configuration settings for information technology products employed in the system are established and included in the baseline configuration.	Functional Functional	No Relationship	N/A System Hardening Through Baseline Configurations	N/A CFG-02	N/A Mechanisms exist to develop, document and maintain secure baseline configurations for Technology Assets, Applications and/or Services (TAAS) that are consistent with industry-accepted system hardening standards.	N/A 5	No requirements to map to.
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	Enterprise Device Management (EDM)	END-01	Mechanisms exist to facilitate the implementation of Enterprise Device Management (EDM) controls.	10	
3.4.2[b]	N/A	security 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 Assets, Applications and/or Services (TAAS) that are consistent with industry- accepted system hardening standards.	5	
3.4.2[b]	N/A	security configuration settings for information technology products employed in the system are enforced.	Functional	Subset Of	Enterprise Device Management (EDM)	END-01	Mechanisms exist to facilitate the implementation of Enterprise Device Management (EDM) 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. changes to the system are logged.	Functional	Intersects With	Configuration Change Control Configuration Change	CHG-02	Mechanisms exist to govern the technical configuration change control processes. Mechanisms exist to govern the technical configuration change	5	
3.4.3[d]	N/A	Determine if the security impact of changes to each organizational	Functional	Intersects With	Control Security Impact Analysis	CHG-02	control processes. Mechanisms exist to analyze proposed changes for potential	5	
3.4.4	N/A	system is analyzed prior to implementation.	Functional	Intersects With	for Changes	CHG-03	security impacts, prior to the implementation of the change.	5	
3.4.5	N/A	Determine If: physical access restrictions associated with changes to the system are	Functional	No Relationship	N/A	N/A	N/A Mechanisms exist to enforce configuration restrictions in an	N/A	No requirements to map to.
3.4.5[a]	N/A	defined. physical access restrictions associated with changes to the system are	Functional	Intersects With	Access Restriction For Change Governing Access	CHG-04	effort to restrict the ability of users to conduct unauthorized changes. Mechanisms exist to define, document, approve and enforce	5	
3.4.5[a] 3.4.5[b]	N/A N/A	defined. physical access restrictions associated with changes to the system are documented.	Functional	Intersects With	Restriction for Change Access Restriction For	END-03.2 CHG-04	access restrictions associated with changes to Technology Assets, Applications and/or Services (TAAS). Mechanisms exist to enforce configuration restrictions in an effort to restrict the ability of users to conduct unauthorized	5	
3.4.5[b]	N/A	physical access restrictions associated with changes to the system are documented.	Functional	Intersects With	Change Governing Access	END-03.2	Mechanisms exist to define, document, approve and enforce access restrictions associated with changes to Technology	5	
		physical access restrictions associated with changes to the system are			Restriction for Change Access Restriction For		Assets, Applications and/or Services (TAAS). 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	Change Governing Access	CHG-04	effort to restrict the ability of users to conduct unauthorized changes. Mechanisms exist to define, document, approve and enforce	5	
3.4.5[c]	N/A	approved.	Functional	Intersects With	Restriction for Change	END-03.2	access restrictions associated with changes to Technology Assets, Applications and/or Services (TAAS).	5	
3.4.5[d]	N/A	physical access restrictions associated with changes to the system are enforced. physical 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. Mechanisms exist to define, document, approve and enforce	5	
3.4.5[d]	N/A	physical access restrictions associated with changes to the system are enforced. logical access restrictions associated with changes to the system are	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	recnanisms exist to define, document, approve and enforce access restrictions associated with changes to Technology Assets, Applications and/or Services (TAAS). Mechanisms exist to enforce configuration restrictions in an	5	
3.4.5[e]	N/A	defined. 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. Mechanisms exist to define, document, approve and enforce	5	
3.4.5[e]	N/A	defined. logical access restrictions associated with changes to the system are	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	access restrictions associated with changes to Technology Assets, Applications and/or Services (TAAS). Mechanisms exist to enforce configuration restrictions in an	5	
3.4.5[f]	N/A	logical access restrictions associated with changes to the system are documented. 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. Mechanisms exist to define, document, approve and enforce	5	
3.4.5[f]	N/A	documented.	Functional	Intersects With	Governing Access Restriction for Change	END-03.2	access restrictions associated with changes to Technology Assets, Applications and/or Services (TAAS).	5	
3.4.5[g]	N/A	logical access restrictions associated with changes to the system are approved.	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	logical access restrictions associated with changes to the system are 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 Technology Assets, Applications and/or Services (TAAS).	5	
3.4.5[h]	N/A	logical 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[h]	N/A	logical 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 Technology Assets, Applications and/or Services (TAAS).	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.	Functional	Intersects With	Least Functionality	CFG-03	essential capabilities by specifically prohibiting or restricting the use of ports, protocols, and/or 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)
3.4.6[b]	N/A	the system is configured to provide only the defined essential capabilities.	Functional	Intersects With	Least Functionality	CFG-03	Mechanisms exist to configure systems to provide only essential capabilities by specifically prohibiting or restricting	5	
3.4.7	N/A	Determine If:	Functional	No Relationship	N/A	N/A	the use of ports, protocols, and/or services. N/A	N/A	No requirements to map to.
3.4.7[a]	N/A	essential programs are 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	
0.4701		the use of nonessential programs is defined.	Forestonal			050.004	functions, ports, protocols and services. Mechanisms exist to periodically review system configurations	-	
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.	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5	
3.4.7[d]	N/A	essential functions are 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[e]	N/A	the use of nonessential functions 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	
		the use of nonessential functions is restricted, disabled, or prevented as					functions, ports, protocols and services. Mechanisms exist to periodically review system configurations		
3.4.7[f]	N/A	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[g]	N/A	essential ports are defined.	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5	
3.4.7[h]	N/A	the use of nonessential ports 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	5	
3.4.7[i]	N/A	the use of nonessential ports 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	
		essential protocols are defined.					functions, ports, protocols and services. Mechanisms exist to periodically review system configurations		
3.4.7[j]	N/A	the use of passessatist arcterial is defined	Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5	
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	
		the use of nonessential services is defined.					functions, ports, protocols and services. Mechanisms exist to periodically review system configurations		
3.4.7[n]	N/A		Functional	Intersects With	Periodic Review	CFG-03.1	to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	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	Mechanisms exist to periodically review system configurations to identify and disable unnecessary and/or non-secure functions, ports, protocols and services.	5	
3.4.8	N/A	Determine If:	Functional	No Relationship	N/A	N/A	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	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	CFG-03.3	authorized to execute on systems. Mechanisms exist to explicitly allow (allowlist / whitelist) and/or block (denylist / blacklist) applications that are	5	
		whitelisting to allow the execution of authorized software or blacklisting			Applications Explicitly Allow / Deny		authorized to execute on systems. Mechanisms exist to explicitly allow (allowlist / whitelist)	_	
3.4.8[c]	N/A	to prevent the use of unauthorized software is implemented as specified.	Functional	Intersects With	Applications	CFG-03.3	and/or block (denylist / blacklist) applications that are authorized to execute on systems.	5	
3.4.9	N/A	Determine If: a policy for controlling the installation of software by users is	Functional	No Relationship	N/A Publishing Cybersecurity	N/A	N/A Mechanisms exist to establish, maintain and disseminate	N/A	No requirements to map to.
3.4.9[a]	N/A	established.	Functional	Intersects With	& Data Protection Documentation	GOV-02	cybersecurity and 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:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.1[a]	N/A	system 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[b]	N/A	processes acting on behalf of users are identified.	Functional	Intersects With	Identification & Authentication for	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users	5	
		devices accessing the system are identified.			Organizational Users		and processes acting on behalf of organizational users.		
3.5.1[c]	N/A	accessing the operant are maintined.	Functional	Intersects With	Authentication &	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users	5	
3.5.2	N/A	Determine If:	Functional	No Relationship	Organizational Users N/A	N/A	and processes acting on behalf of organizational users. 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	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users	5	
0.0.2[a]	IN/A	the identity of each process sating as bahalf of	. anononat	microsocis With	Organizational Users	.AU-02	and processes acting on behalf of organizational users.	,	
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	IAC-02	Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users	5	
		the identity of each device accessing or connecting to the system is			Organizational Users		and processes acting on behalf of organizational users. Mechanisms exist to uniquely identify and centrally		
3.5.2[c]	N/A	authenticated or verified as a prerequisite to system access.	Functional	Intersects With	Authentication for Organizational Users	IAC-02	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.	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	multifactor authentication is implemented for network access to 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	to authenticate network access for privileged accounts. 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-	Functional	Intersects With	Replay-Resistant	IAC-02.2	Automated mechanisms exist to employ replay-resistant	5	
3-4	1976	privileged accounts.	Juonat		Authentication	02.12	authentication.	ŭ	



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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)
3.5.5	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.	Functional	Intersects With	Identifier Management (User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and Technology Assets, Applications and/or Services (TAAS).	5	
3.5.5[b]	N/A	reuse of identifiers is prevented within the defined period.	Functional	Intersects With	Identifier Management (User Names)	IAC-09	Mechanisms exist to govern naming standards for usernames and Technology Assets, Applications and/or Services (TAAS).	5	
3.5.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.6[a]	N/A	a period of inactivity after which an identifier is disabled is defined.	Functional	Intersects With	Disable Inactive Accounts	IAC-15.3	Automated mechanisms exist to disable inactive accounts after an organization-defined time period.	5	
3.5.6[b]	N/A	identifiers are disabled after the defined period of inactivity.	Functional	Intersects With	Disable Inactive Accounts	IAC-15.3	Automated mechanisms exist to disable inactive accounts after an organization-defined time period.	5	
3.5.7	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.5.7[a]	N/A	password complexity requirements are defined.	Functional	Intersects With	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	5	
3.5.7[b]	N/A	password change of character requirements are defined.	Functional	Intersects With	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	5	
3.5.7[c]	N/A	minimum password complexity requirements as defined are enforced when new passwords are created.	Functional	Intersects With	Password-Based Authentication	IAC-10.1	Mechanisms exist to enforce complexity, length and lifespan considerations to ensure strong criteria for password-based authentication.	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	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.
0.0.0	IVA	the number of generations during which a password cannot be reused is	Tunctionat	140 Netationalip	IWA	14/0	Mechanisms exist to:	1970	No requirements to map to:
3.5.8[a]	N/A	specified.	Functional	Intersects With	Authenticator Management	IAC-10	(1) Securely manage authenticators for users and devices; and (2) Ensure the strength of authentication is appropriate to the classification of the data being accessed.	5	
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.	5	
3.5.11	N/A	Determine if authentication information is obscured during the authentication process.	Functional	Intersects With	Authenticator Feedback	IAC-11	Mechanisms exist to obscure the feedback of authentication information during the authentication process to protect the information from possible exploitation/use by unauthorized	5	
3.6.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	individuals. 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 and data protection-related	10	
3.6.1[a]	N/A	an operational incident-handling capability is established.	Functional	Intersects With	Incident Handling	IRO-02	Incidents. 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[b]	N/A	the operational incident-handling capability includes preparation.	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 and data protection-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) Recoverv.	5	
3.6.1[c]	N/A	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 and data protection-related incidents.	10	
3.6.1[c]	N/A	the operational incident-handling capability includes detection.	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) Recoverv.	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 and data protection-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) Recoverv.	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 and data protection-related incidents.	10	



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		Rationale	Relationship	301 Control	301 #	Control Description	(optional)	rectes (optional)
		the operational incident-handling capability includes containment.					Mechanisms exist to cover: (1) Preparation;		
3.6.1[e]	N/A		Functional	Intersects With	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;	5	
0.0.1[0]	IVA		ranotonat	intorocoto vvia	incident Handling	1110 02	(3) Analysis; (4) Containment;	ŭ	
							(5) Eradication; and (6) Recovery.		
		the operational incident-handling capability includes recovery.			Incident Response		Mechanisms exist to implement and govern processes and documentation to facilitate an organization-wide response		
3.6.1[f]	N/A		Functional	Subset Of	Operations	IRO-01	capability for cybersecurity and data protection-related	10	
		the operational incident-handling capability includes recovery.					incidents. Mechanisms exist to cover:		
							(1) Preparation; (2) Automated event detection or manual incident report		
3.6.1[f]	N/A		Functional	Intersects With	Incident Handling	IRO-02	intake; (3) Analysis:	5	
							(4) Containment; (5) Eradication; and		
							(6) Recovery.		
		the operational incident-handling capability includes user response activities.					Mechanisms exist to cover: (1) Preparation;		
3.6.1[g]	N/A		Functional	Intersects With	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;	5	
3.0.1[g]	IVA		Tunctionat	IIIteraecta with	ilicident Handting	1110-02	(3) Analysis; (4) Containment;	5	
							(5) Eradication; and (6) Recovery.		
3.6.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
		incidents are tracked.					Mechanisms exist to cover:		
							(2) Automated event detection or manual incident report		
3.6.2[a]	N/A		Functional	Intersects With	Incident Handling	IRO-02	intake; (3) Analysis;	5	
							(4) Containment; (5) Eradication; and		
		In the state of th					(6) Recovery.		
		incidents are documented.					Mechanisms exist to cover: (1) Preparation;		
3.6.2[b]	N/A		Functional	Intersects With	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;	5	
3.0.2[0]	IV/A		Tunctionat	IIIteraecta with	incident Handling	1110-02	(3) Analysis; (4) Containment;	5	
							(5) Eradication; and		
		authorities to whom incidents are to be reported are identified.					(6) Recovery. Mechanisms exist to cover:		
							(1) Preparation; (2) Automated event detection or manual incident report		
3.6.2[c]	N/A		Functional	Intersects With	Incident Handling	IRO-02	intake; (3) Analysis;	5	
							(4) Containment; (5) Eradication; and		
							(6) Recovery.		
		organizational officials to whom incidents are to be reported are identified.					Mechanisms exist to cover: (1) Preparation;		
2 E 2[4]	N/A		Functional	Intersects With	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;	5	
3.6.2[d]	N/A		Functional	intersects with	Incident Handling	INO-02	(3) Analysis; (4) Containment;	5	
							(5) Eradication; and		
		identified authorities are notified of incidents.					(6) Recovery. Mechanisms exist to cover: (1) Preparation:		
							(2) Automated event detection or manual incident report		
3.6.2[e]	N/A		Functional	Intersects With	Incident Handling	IRO-02	intake; (3) Analysis;	5	
							(4) Containment; (5) Eradication; and		
		identified organizational officials are notified of incidents.					(6) Recovery. Mechanisms exist to cover:		
		identined organizational officials are notined of incidents.					(1) Preparation;		
3.6.2[f]	N/A		Functional	Intersects With	Incident Handling	IRO-02	(2) Automated event detection or manual incident report intake;	5	
							(3) Analysis; (4) Containment;	-	
							(5) Eradication; and (6) Recovery.		
3.6.3	N/A	Determine if the incident response capability is tested.	Functional	Intersects With	Incident Response	IRO-06	Mechanisms exist to formally test incident response	5	
0.0.0	IVA	Determine if a matern maintenance is	. Industrial		Testing		capabilities through realistic exercises to determine the operational effectiveness of those capabilities.		
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.	Functional	Intersects With	Maintenance Tools	MNT-04	Mechanisms exist to control and monitor the use of system	5	
3.7.2[a]	N/A	techniques 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	
		mechanisms used to conduct system maintenance are controlled.					maintenance tools. Mechanisms exist to control and monitor the use of system		
3.7.2[c]	N/A	personnel 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[d]	N/A		Functional	Intersects With	Maintenance Tools	MNT-04	maintenance tools.	5	
3.7.3	N/A	Determine if equipment to be removed from organizational spaces for off- site maintenance is sanitized of any CUI.	Functional	Intersects With	System Media	DCH-09	Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity	5	
			Juonat		Sanitization		of the information prior to disposal, release out of organizational control or release for reuse.		
3.7.4	N/A	Determine if media containing diagnostic and test programs are checked for malicious code before being used in organizational systems that	Functional	Intersects With	Inspect Media	MNT-04.2	Mechanisms exist to check media containing diagnostic and	5	
		process, store, or transmit CUI.					test programs for malicious code before the media are used.		
	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.7.5		multifactor authentication is required to establish nonlocal	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 3.7.5[a]	N/A	maintenance sessions via external network connections.				i	Mechanisms exist to authorize, monitor and control remote,		I.
	N/A N/A		Functional	Intersects With	Remote Maintenance	MNT-05		5	
3.7.5[a] 3.7.5[b]	N/A	maintenance sessions via external network connections. nonlocal maintenance sessions established via external network connections are terminated when nonlocal maintenance is complete.					non-local maintenance and diagnostic activities.		
3.7.5[a] 3.7.5[b] 3.7.6	N/A	maintenance sessions via external network connections. nonlocal maintenance sessions established via external network connections are terminated when nonlocal maintenance is complete. Determine if maintenance personnel without required access authorization are supervised during maintenance activities.	Functional	Intersects With	Authorized Maintenance Personnel	MNT-06	non-local maintenance and diagnostic activities. Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel.	5	
3.7.5[a] 3.7.5[b]	N/A	maintenance sessions via external network connections. nonlocal maintenance sessions established via external network connections are terminated when nonlocal maintenance is complete. Determine if maintenance personnel without required access authorization are supervised during maintenance activities. Determine if:			Authorized Maintenance		non-local maintenance and diagnostic activities. Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel. N/A	5 N/A	No requirements to map to.
3.7.5[a] 3.7.5[b] 3.7.6	N/A	maintenance sessions via external network connections. nonlocal maintenance sessions established via external network connections are terminated when nonlocal maintenance is complete. Determine if maintenance personnel without required access authorization are supervised during maintenance activities. Determine if: paper media containing CUI is physically controlled.	Functional	Intersects With	Authorized Maintenance Personnel	MNT-06	non-local maintenance and diagnostic activities. Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel. N/A Mechanisms exist to facilitate the implementation of data protection controls.	5	No requirements to map to.
3.7.5[a] 3.7.5[b] 3.7.6 3.8.1	N/A N/A	maintenance sessions via external network connections. nonlocal maintenance sessions established via external network connections are terminated when nonlocal maintenance is complete. Determine if maintenance personnel without required access authorization are supervised during maintenance activities. Determine if:	Functional Functional	Intersects With	Authorized Maintenance Personnel N/A	MNT-06 N/A	non-local maintenance and diagnostic activities. Mechanisms exist to maintain a current list of authorized maintenance organizations or personnel. N/A Mechanisms exist to facilitate the implementation of data	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)
		digital media containing CUI is securely stored.	Rationale	Relationship			Control Description Mechanisms exist to facilitate the implementation of data	(optional)	Notes (optional)
3.8.1[d]	N/A	Determine if access to CUI on system media is limited to authorized	Functional	Subset Of	Data Protection	DCH-01	protection controls. Mechanisms exist to control and restrict access to digital and	10	
3.8.2	N/A N/A	users. Determine If:	Functional	Intersects With	Media Access	N/A	non-digital media to authorized individuals. N/A	N/A	No requirements to map to.
3.8.3[a]	N/A	system media containing CUI is sanitized or destroyed before disposal.	Functional	Intersects With	System Media Sanitization	DCH-09	Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of	5	No requirements to map to:
3.8.3[b]	N/A	system media containing CUI is sanitized before it is released for reuse.	Functional	Intersects With	System Media Sanitization	DCH-09	organizational control or release for reuse. Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of	5	
3.8.4	N/A	Determine If:	Functional	No Relationship	N/A	N/A	organizational control or release for reuse. N/A	N/A	No requirements to man 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	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	appropriate security measures. Mechanisms exist to protect and control digital and non-digital media during transport outside of controlled areas using appropriate security measures.	5	
3.8.6	N/A	Determine if the confidentiality of CUI stored on digital media is protected during transport using cryptographic mechanisms or alternative physical safeguards.	Functional	Intersects With	Encrypting Data At Rest	CRY-05	Cryptographic mechanisms exist to prevent unauthorized disclosure of data at rest.	5	
3.8.7	N/A	Determine if the use of removable media on system components containing CUI is controlled.	Functional	Intersects With	Media Use	DCH-10	Mechanisms exist to restrict the use of types of digital media on systems or system components.	5	
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 systems when such devices have no identifiable owner.	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	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 satisfy 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 and 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 Technology Assets, Applications and/or Services (TAAS) 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 Technology Assets, Applications and/or Services (TAAS) and facilities upon personnel reassignment or	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	transfer. in a timely manner. 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 Technology Assets, Applications and/or Services (TAAS) 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 3.10.1[a]	N/A N/A	Determine If: authorized individuals allowed physical access are identified.	Functional	No Relationship	N/A Physical Access	N/A PES-02	N/A Physical access control mechanisms exist to maintain a current list of personnel with authorized access to	N/A 5	No requirements to map to.
3.10.1[b]	N/A	physical access to organizational systems is limited to authorized individuals.	Functional	Intersects With	Authorizations Physical Access	PES-02	organizational facilities (except for those areas within the facility officially designated as publicly accessible). Physical access control mechanisms exist to maintain a current list of personnel with authorized access to	5	
5. 10. I[D]	N/A	physical access to equipment is limited to authorized individuals.	runctional	anterodus with	Authorizations	F L3-U2	organizational facilities (except for those areas within the facility officially designated as publicly accessible). Physical access control mechanisms exist to maintain a		
3.10.1[c]	N/A	physical access to operating environments is limited to authorized	Functional	Intersects With	Physical Access Authorizations	PES-02	current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible). Physical access control mechanisms exist to maintain a	5	
3.10.1[d]	N/A	individuals.	Functional	Intersects With	Physical Access Authorizations	PES-02	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	



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM	STRM	SCF Control	SCF#	Secure Controls Framework (SCF)	Strength of Relationship	Mates (antiquel)
		the physical facility where that system resides is monitored.	Rationale	Relationship	Intrusion Alarms /		Control Description Physical access control mechanisms exist to monitor physical	(optional)	Notes (optional)
3.10.2[c]	N/A	the physical facility where that system resides is monitored.	Functional	Intersects With	Surveillance Equipment Monitoring Physical	PES-05.1	intrusion alarms and surveillance equipment. Facility security mechanisms exist to monitor physical access	5	
3.10.2[c]	N/A		Functional	Intersects With	Access To Critical Systems	PES-05.2	to critical 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 Critical Systems	PES-05.2	Facility security mechanisms exist to monitor physical access to critical 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	5	
		visitor activity is monitored.					the need for access. Physical access control mechanisms exist to identify, authorize		
3.10.3[b]	N/A	visitor activity is monitored.	Functional	Intersects With	Visitor Control	PES-06	and monitor visitors before allowing access to the facility (other than areas designated as publicly accessible).	5	
3.10.3[b]	N/A		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[b]	N/A	visitor activity is monitored.	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	
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/exit 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 entry/exit 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 entry/exit points) to facilities (excluding those areas within the facility officialty 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	Alternate Work Site	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	5	
3.11.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	work sites. 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 Technology Assets, Applications, Services and/or Data (TAASD).	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 Technology Assets, Applications, Services and/or Data (TAASD).	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	5	
3.11.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	applications. 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. security controls are assessed with the defined frequency to determine if	Functional	Intersects With	Cybersecurity & Data Protection Controls Oversight Cybersecurity & Data	CPL-02	Mechanisms exist to provide a cybersecurity and data protection controls oversight function that reports to the organization's executive leadership. Mechanisms exist to provide a cybersecurity and data	5	
3.12.1[b]	N/A	the controls are effective in their application.	Functional	Intersects With	Protection Controls Oversight	CPL-02	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.



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)
3.12.2[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 (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	
3.12.2[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	eliminate known vulnerabilities. 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	
3.12.2[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	eliminate known vulnerabilities. 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	CPL-02	eliminate known vulnerabilities. Mechanisms exist to provide a cybersecurity and data protection controls oversight function that reports to the	5	
3.12.4	N/A	Determine If:	Functional	No Relationship	Oversight N/A	N/A	organization's executive leadership. N/A	N/A	No requirements to map to.
3.12.4[a]	N/A	a system security plan is developed.	Functional	Intersects With	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Plans (SSPPa), or similar document repositories, to identify and maintain key architectural information on each critical Technology Assets, Applications and/or Services (IAAS), as well as influence inputs, entities and TAAS, providing a historical record of the data and its oridins.	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 Technology Assets, Applications and/or Services (TAAS), as well as influence inputs, entities and TAAS, providing a historical record of the data and its orieins.	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 Technology Assets, Applications and/or Services (TAAS), as well as influence inputs, entities and TAAS, providing a historical record of the data and its origins.	5	
3.12.4[d]	N/A	the security requirements identified and approved by the designated authority as non-applicable are identified.	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 Technology Assets, Applications and/or Services (TAS), as well as influence inputs, entities and TAS, providing a historical record of the data and its origins.	5	
3.12.4[e]	N/A	the method of security requirement implementation 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 (SSPPa), or similar document repositories, to identify and maintain key architectural information on each critical Technology Assets, Applications and/or Services (TAAS), as well as influence inputs, entities and TAAS, providing a historical record of the data and its oriens.	5	
3.12.4[f]	N/A	the relationship with or connection to other systems is described and documented in the system security plan.	Functional	Intersects With	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generals System Security & Privacy Plans (SSPPs), or similar document repositories, to identify and maintain key architectural information on each critical Technology Assets, Applications and/or Services (TAAS), as well as influence inputs, entities and TAAS, providing a historical record of the data and its oridins.	5	
3.12.4[g]	N/A	the frequency to update the system security plan is defined. system security plan is updated with the defined frequency.	Functional	Intersects With	System Security & Privacy Plan (SSPP)	IAO-03	Mechanisms exist to generate System Security & Privacy Rans (SSPs), or similar document repositories, to identify and maintain key architectural information on each critical Technology Assets, Applications and/or Services (TAAS), as well as influence inputs, entities and TAAS, providing a historical record of the date and its oridins. Mechanisms exist to generate System Security & Privacy Plans	5	
3.12.4[h]	N/A	ayasim security pian is updated with the defined inequality.	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 Technology Assets, Applications and/or Services (TAAS), as well as influence inputs, entities and TAAS, providing a historical record of the data and its origins.	5	
3.13.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.13.1[a]	N/A	the external system boundary is 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 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 within the network.	5	
3.13.1[c]	N/A	communications are monitored 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 within the network.	5	
3.13.1[d]	N/A	communications are monitored 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 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 within the network.	5	
3.13.1[f]	N/A	communications are controlled 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 within the network.	5	
3.13.1[g]	N/A	communications are protected 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[g]	N/A	communications are protected 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 within the network.	5	
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 within the network.	5	
3.13.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.13.2[a]	N/A	architectural designs that promote effective information security are identified.	Functional	Subset Of	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry- recognized cybersecurity and data protection practices in the specification, design, development, implementation and modification of Technology Assets, Applications and/or Services (TAAS).	10	
3.13.2[b]	N/A	software development techniques that promote effective information security are identified.	Functional	Intersects With	Secure Software Development Practices (SSDP)	TDA-06	Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).	5	
3.13.2[c]	N/A	systems engineering principles that promote effective information security are identified.	Functional	Subset Of	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industry- recognized cybersecurity and data protection practices in the specification, design, development, implementation and modification of Technology Assets, Applications and/or Services (TAAS).	10	
3.13.2[d]	N/A	identified architectural designs that promote effective information security are employed.	Functional	Subset Of	Secure Engineering Principles	SEA-01	Mechanisms exist to facilitate the implementation of industy- recognized cybersecurity and data protection practices in the specification, design, development, implementation and modification of Technology Assets, Applications and/or Services (TAAS).	10	



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3.13.2[e]	N/A	identified software development techniques that promote effective information security are employed.	Functional	Intersects With	Secure Software Development Practices	TDA-06	Mechanisms exist to develop applications based on Secure Software Development Practices (SSDP).	5	
	1071	identified systems engineering principles that promote effective			(SSDP)	15/100	Mechanisms exist to facilitate the implementation of industry-	_	
3.13.2[f]	N/A	information security are employed.	Functional	Subset Of	Secure Engineering	SEA-01	recognized cybersecurity and data protection practices in the specification, design, development, implementation and	10	
					Principles		modification of Technology Assets, Applications and/or Services (TAAS).		
3.13.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.13.3[a]	N/A	user functionality is identified.	Functional	Intersects With	Application Partitioning	SEA-03.2	Mechanisms exist to separate user functionality from system management functionality.	5	
3.13.3[b]	N/A	system management functionality is identified.	Functional	Intersects With	Application Partitioning	SEA-03.2	Mechanisms exist to separate user functionality from system management functionality.	5	
3.13.3[c]	N/A	user functionality is separated from system management functionality.	Functional	Intersects With	Application Partitioning	SEA-03.2	Mechanisms exist to separate user functionality from system management functionality.	5	
3.13.4	N/A	Determine if unauthorized and unintended information transfer via shared system resources is prevented.	Functional	Intersects With	Information In Shared Resources	SEA-05	Mechanisms exist to prevent unauthorized and unintended information transfer via shared system resources.	5	
3.13.5	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
		publicly accessible system components are identified.			Network Segmentation		Mechanisms exist to ensure network architecture utilizes network segmentation to isolate Technology Assets,	_	
3.13.5[a]	N/A		Functional	Intersects With	(macrosegementation)	NET-06	Applications and/or Services (TAAS) to protect from other network resources.	5	
		subnetworks for publicly accessible system components are physically or logically separated from internal networks.			Network Segmentation		Mechanisms exist to ensure network architecture utilizes network segmentation to isolate Technology Assets,		
3.13.5[b]	N/A	o togodky sopulated normal nativorse.	Functional	Intersects With	(macrosegementation)	NET-06	Applications and/or Services (TAAS) to protect from other	5	
3.13.6	N/A	Determine If:	Functional	No Relationship	N/A	N/A	network resources. N/A	N/A	No requirements to map to.
		network communications traffic is denied by default.			Deny Traffic by Default &		Mechanisms exist to configure firewall and router		
3.13.6[a]	N/A		Functional	Intersects With	Allow Traffic by Exception	NET-04.1	configurations to deny network traffic by default and allow network traffic by exception (e.g., deny all, permit by exception).	5	
		network communications traffic is allowed by exception.			Deny Traffic by Default &		Mechanisms exist to configure firewall and router		
3.13.6[b]	N/A		Functional	Intersects With	Allow Traffic by Exception	NET-04.1	configurations to deny network traffic by default and allow network traffic by exception (e.g., deny all, permit by exception).	5	
		Determine if remote devices are prevented from simultaneously					Mechanisms exist to prevent split tunneling for remote devices		
3.13.7	N/A	establishing non-remote connections with the system and communicating via some other connection to resources in external	Functional	Intersects With	Split Tunneling	CFG-03.4	unless the split tunnel is securely provisioned using organization-defined safeguards.	5	
3.13.8	N/A	networks (i.e., split tunneling). Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
		cryptographic mechanisms intended to prevent unauthorized disclosure			Use of Cryptographic		Mechanisms exist to facilitate the implementation of		
3.13.8[a]	N/A	of CUI are identified.	Functional	Subset Of	Controls	CRY-01	cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
3.13.8[a]	N/A	cryptographic mechanisms intended to prevent unauthorized disclosure of CUI are identified.	Functional	Intersects With	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
3.13.8[b]	N/A	alternative physical safeguards intended to prevent unauthorized disclosure of CUI are identified.	Functional	Intersects With	Alternate Physical Protection	CRY-01.1	Cryptographic mechanisms exist to prevent unauthorized disclosure of information as an alternative to physical	5	
		either cryptographic mechanisms or alternative physical safeguards are					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	Alternate Physical Protection	CRY-01.1	disclosure of information as an alternative to physical safeguards.	5	
3.13.9	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.13.9[a]	N/A	a period of inactivity to terminate network connections associated with communications sessions is defined.	Functional	Intersects With	Network Connection	NET-07	Mechanisms exist to terminate network connections at the end of a session or after an organization-defined time period of	5	
		network connections associated with communications sessions are			Termination		inactivity. Mechanisms exist to terminate network connections at the end		
3.13.9[b]	N/A	terminated at the end of the sessions.	Functional	Intersects With	Network Connection Termination	NET-07	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	NET-07	Mechanisms exist to terminate network connections at the end of a session or after an organization-defined time period of	5	
3.13.10	N/4	Data-date M	Forestonel	No Beledinastia	Termination	N//4	inactivity.	N/A	
3.13.10	N/A	Determine If: cryptographic keys are established whenever cryptography is employed.	Functional	No Relationship	N/A	N/A	Mechanisms exist to securely implement an internal Public Key	N/A	No requirements to map to.
3.13.10[a]	N/A		Functional	Intersects With	Public Key Infrastructure (PKI)	CRY-08	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	CRY-09	Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability	5	
		cryptographic keys are managed whenever cryptography is employed.			Management		of keys. Mechanisms exist to securely implement an internal Public Key		
3.13.10[b]	N/A		Functional	Intersects With	Public Key Infrastructure (PKI)	CRY-08	Infrastructure (PKI) infrastructure or obtain PKI services from a reputable PKI service provider.	5	
3.13.10[b]	N/A	cryptographic keys are managed whenever cryptography is employed.	Functional	Intersects With	Cryptographic Key	CRY-09	Mechanisms exist to facilitate cryptographic key management controls to protect the confidentiality, integrity and availability	5	
		Determine if FIPS-validated cryptography is employed to protect the			Management		of keys. Mechanisms exist to facilitate the implementation of		
3.13.11	N/A	confidentiality of CUI.	Functional	Subset Of	Use of Cryptographic Controls	CRY-01	cryptographic protections controls using known public standards and trusted cryptographic technologies.	10	
3.13.11	N/A	Determine if FIPS-validated cryptography is employed to protect the confidentiality of CUI.	Functional	Intersects With	Transmission Confidentiality	CRY-03	Cryptographic mechanisms exist to protect the confidentiality of data being transmitted.	5	
3.13.12	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
		collaborative computing devices are identified.					Mechanisms exist to unplug or prohibit the remote activation of		
3.13.12[a]	N/A		Functional	Intersects With	Collaborative Computing Devices	END-14	collaborative computing devices with the following exceptions: (1) Networked whiteboards;	5	
					Bevises		(2) Video teleconference cameras; and (3) Teleconference microphones.		
		collaborative computing devices provide indication to users of devices in use.					Mechanisms exist to unplug or prohibit the remote activation of		
3.13.12[b]	N/A	use.	Functional	Intersects With	Collaborative Computing	END-14	collaborative computing devices with the following exceptions: (1) Networked whiteboards;	5	
					Devices		(2) Video teleconference cameras; and (3) Teleconference microphones.		
		remote activation of collaborative computing devices is prohibited.					Mechanisms exist to unplug or prohibit the remote activation of		
3.13.12[c]	N/A		Functional	Intersects With	Collaborative Computing	END-14	collaborative computing devices with the following exceptions: (1) Networked whiteboards;	5	
			•		Devices		(2) Video teleconference cameras; and (3) Teleconference microphones.		
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-	5	
3.13.13[b]	N/A	use of mobile code is monitored.	Functional	Intersects With	Mobile Code	END-10	independent applications. Mechanisms exist to address mobile code / operating system-	5	
3.13.14	N/A	Determine If:	Functional	No Relationship	N/A	N/A	independent applications. N/A	N/A	No requirements to map to.
3.13.14[a]	N/A	use of Voice over Internet Protocol (VoIP) technologies is controlled.	Functional	Intersects With	Electronic Messaging	NET-13	Mechanisms exist to protect the confidentiality, integrity and	5	
3.13.14[b]	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	
J. 13.14[D]	N/A	1	т инсионац	micer secis with	Electionic messaging	NE1-13	availability of electronic messaging communications.	Ü	<u> </u>



FDE#	FDE Name	Focal Document Element (FDE) Description	STRM Rationale	STRM Relationship	SCF Control	SCF#	Secure Controls Framework (SCF) Control Description	Strength of Relationship (optional)	Notes (optional)
3.13.15	N/A	Determine if the authenticity of communications sessions is protected.	Functional	Intersects With	Session Integrity	NET-09	Mechanisms exist to protect the authenticity and integrity of communications sessions.	5	
3.13.16	N/A	Determine if the confidentiality of CUI at rest is protected.	Functional	Intersects With	Endpoint Protection Measures	END-02	Mechanisms exist to protect the confidentiality, integrity, availability and safety of endpoint devices.	5	
3.14.1	N/A	Determine If:	Functional	No Relationship	N/A	N/A	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 (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
3.14.1[b]	N/A	system flaws are identified within the specified time frame.	Functional	Subset Of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
3.14.1[c]	N/A	the time within which to report system flaws is specified.	Functional	Subset Of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
3.14.1[d]	N/A	system flaws are reported within the specified time frame.	Functional	Subset Of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
3.14.1[e]	N/A	the time within which to correct system flaws is specified.	Functional	Subset Of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
3.14.1[f]	N/A	system flaws are corrected within the specified time frame.	Functional	Subset Of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
3.14.2	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.14.2[a]	N/A	designated locations for malicious code protection are identified.	Functional	Intersects With	Malicious Code Protection (Anti-Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
3.14.2[b]	N/A	protection from malicious code at designated locations is provided.	Functional	Intersects With	Malicious Code Protection (Anti-Malware)	END-04	Mechanisms exist to utilize antimalware technologies to detect and eradicate malicious code.	5	
3.14.3	N/A	Determine If:	Functional	No Relationship	N/A	N/A	N/A	N/A	No requirements to map to.
3.14.3[a]	N/A	response actions to system security alerts and advisories are identified.	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[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	Automated mechanisms exist to update antimalware technologies, including signature definitions.	5	
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	

