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

Reference Document :Secure Controls Framework (SCF) version 2025.1STRM Guidance:https://securecontrolsframework.com/set-theory-relationship-mapping-strm/

 Focal Document:
 CMMC Self-Assessment Guide Level 1

 Focal Document URL:
 https://dodcio.defense.gov/Portals/0/Documents/CMMC/AG\_Level1\_V2.0\_FinalDraft\_20211210\_508.pdf

 Published STRM URL:
 https://securecontrolsframework.com/content/strm/scf-strm-us-fed-dod-cmmc-2-level-1.pdf2

CMMC FDE#	FAR 52.204-21 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)
Not In CMMC Level 1	52.204-21(a)	N/A	Read FAR 52.204-21(a) for full text (https://www.acquisition.gov/far/52.204-21)	Functional	intersects with	Standardized Terminology	SEA-02.1	Mechanisms exist to standardize technology and process terminology to reduce confusion amongst groups and departments	5	
Not In CMMC Level 1	52.204-21(b)	N/A	This is merely a section title without content. The Contractor shall apply the following basic	Functional	no relationship	N/A	N/A	N/A Mechanisms exist to facilitate the implementation of	N/A	N/A
Not In CMMC Level 1	52.204-21(b)(1)	N/A	safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum, the following security controls:	Functional	subset of	Cybersecurity & Data Protection Governance Program	GOV-01	cybersecurity & data protection governance controls.	10	
Not In CMMC Level 1	52.204-21(b)(1)	N/A	The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a	Functional	intersects with	Publishing Cybersecurity & Data Protection Documentation	GOV-02	Mechanisms exist to establish, maintain and disseminate cybersecurity & data protection policies, standards and procedures.	8	
Not In CMMC Level 1	52.204-21(b)(1)	N/A	minimum, the following security controls: The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum. the following security controls:	Functional	intersects with	Assigned Cybersecurity & Data Protection Responsibilities	GOV-04	Mechanisms exist to assign one or more qualified individuals with the mission and resources to centrally-manage, coordinate, develop, implement and maintain an enterprise-wide cybersecurity & data protection program.	8	
Not In CMMC Level 1	52.204-21(b)(1)	N/A	The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum, the following security controls:	Functional	intersects with	Stakeholder Accountability Structure	GOV-04.1	Mechanisms exist to enforce an accountability structure so that appropriate teams and individuals are empowered, responsible and trained for mapping, measuring and managing data and technology-related risks.	8	
Not In CMMC Level 1	52.204-21(b)(1)	N/A	The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum, the following security controls:	Functional	subset of	Operationalizing Cybersecurity & Data Protection Practices	GOV-15	Mechanisms exist to compel data and/or process owners to operationalize cybersecurity & data privacy practices for each system, application and/or service under their control.	10	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	Functional	intersects with	Identity & Access Management (IAM)	IAC-01	Mechanisms exist to facilitate the implementation of identification and access management controls.	5	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	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	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices	Functional	intersects with	Role-Based Access Control (RBAC)	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to- know and fine-grained access control for sensitive/regulated	5	
AC.11-3.1.1	52,204-21(b)(1)(i)	Authorized Access	(including other information systems). Limit information system access to authorized users, processes acting on behalf of authorized users, or devices	Functional	intersects with	Identifier Management	IAC-09	data access. Mechanisms exist to govern naming standards for usernames	5	
	52 204 21(b)(1)(i)	Control Authorized Access	(including other information systems). Limit information system access to authorized users,	Eurotional	intercepte with	(User Names) Authenticator		Mechanisms exist to securely manage authenticators for users	5	
AO.L1-3.1.1	52.204-21(b)(1)(1)	Control Authorized Access	(including other information systems). Limit information system access to authorized users,	Functional		Management Password-Based	IAC-10	Mechanisms exist to enforce complexity, length and lifespan	5	
AC.L1-3.1.1	52.204-21(D)(1)(I)	Control Authorized Access	(including other information systems). Limit information system access to authorized users,	Functional		Authentication	IAC-10.1	authentication. Mechanisms exist to proactively govern account management of	5	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Control Authorized Access	processes acting on behalf of authorized users, or devices (including other information systems). Limit information system access to authorized users,	Functional	intersects with	Account Management Automated System	IAC-15	individual, group, system, service, application, guest and temporary accounts. Automated mechanisms exist to support the management of	5	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Control	processes acting on behalf of authorized users, or devices (including other information systems). Limit information system access to authorized users,	Functional	intersects with	Account Management (Directory Services)	IAC-15.1	system accounts (e.g., directory services). Mechanisms exist to enforce Logical Access Control (LAC)	5	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	processes acting on behalf of authorized users, or devices (including other information systems).	Functional	equal	Access Enforcement	IAC-20	permissions that conform to the principle of "least privilege."	10	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	Functional	intersects with	Least Privilege	IAC-21	allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions.	8	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	Functional	intersects with	Third-Party Management	TPM-01	Mechanisms exist to facilitate the implementation of third-party management controls.	5	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	Functional	intersects with	Third-Party Contract Requirements	TPM-05	Mechanisms exist to require contractual requirements for cybersecurity & data privacy requirements with third-parties, reflecting the organization's needs to protect its systems, processes and data.	5	
AC.L1-3.1.1	52.204-21(b)(1)(i)	Authorized Access Control	Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).	Functional	intersects with	Contract Flow-Down Requirements	TPM-05.2	Mechanisms exist to ensure cybersecurity & data privacy requirements are included in contracts that flow-down to applicable sub-contractors and suppliers.	5	
AC.L1-3.1.2	52.204-21(b)(1)(ii)	Transaction & Function Control	Limit information system access to the types of transactions and functions that authorized users are permitted to execute.	Functional	intersects with	Role-Based Access Control (RBAC)	IAC-08	Mechanisms exist to enforce a Role-Based Access Control (RBAC) policy over users and resources that applies need-to- know and fine-grained access control for sensitive/regulated	5	
AC.L1-3.1.2	52.204-21(b)(1)(ii)	Transaction & Function Control	Limit information system access to the types of transactions and functions that authorized users are	Functional	intersects with	Account Management	IAC-15	Mechanisms exist to proactively govern account management of individual, group, system, service, application, guest and	5	
AC.L1-3.1.2	52.204-21(b)(1)(ii)	Transaction & Function Control	Limit information system access to the types of transactions and functions that authorized users are	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	
AC.L1-3.1.2	52.204-21(b)(1)(ii)	Transaction & Function Control	Limit information system access to the types of transactions and functions that authorized users are	Functional	intersects with	Remote Access	NET-14	Mechanisms exist to define, control and review organization- approved, secure remote access methods.	3	
AC.L1-3.1.2	52.204-21(b)(1)(ii)	Transaction & Function Control	Limit information system access to the types of transactions and functions that authorized users are	Functional	intersects with	Work From Anywhere (WFA) - Telecommuting	NET-14.5	Mechanisms exist to define secure telecommuting practices and govern remote access to systems and data for remote workers.	3	
AC.L1-3.1.20	52.204-21(b)(1)(iii)	External Connections	Verify and control/limit connections to and use of external information systems.	Functional	equal	Use of External Information Systems	DCH-13	Mechanisms exist to govern how external parties, systems and services are used to securely store, process and transmit data.	10	
AC.L1-3.1.20	52.204-21(b)(1)(iii)	External Connections	Verify and control/limit connections to and use of external information systems.	Functional	intersects with	Portable Storage Devices	DCH-13.2	Mechanisms exist to restrict or prohibit the use of portable storage devices by users on external systems.	3	
AC.L1-3.1.20	52.204-21(b)(1)(iii)	External Connections	Verify and control/limit connections to and use of external information systems.	Functional	intersects with	Protecting Sensitive Data on External Systems	DCH-13.3	Mechanisms exist to ensure that the requirements for the protection of sensitive information processed, stored or transmitted on external systems, are implemented in accordance with applicable statutory, regulatory and contractual obligations	5	
AC.L1-3.1.20	52.204-21(b)(1)(iii)	External Connections	Verify and control/limit connections to and use of external information systems.	Functional	intersects with	Ad-Hoc Transfers	DCH-17	Mechanisms exist to secure ad-hoc exchanges of large digital files with internal or external parties. Mechanisms exist to prohibit external parties, systems and services from storing, processing and transmitting data unless	3	
AC.L1-3.1.20	52.204-21(b)(1)(iii)	External Connections	Verify and control/limit connections to and use of external information systems.	Functional	intersects with	Limits of Authorized Use	DCH-13.1	authorized individuals first: (1) Verifying the implementation of required security controls; or (2) Retaining a processing agreement with the entity hosting the external systems or service.	5	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Cloud Services	CLD-01	Mechanisms exist to facilitate the implementation of cloud management controls to ensure cloud instances are secure and in-line with industry practices.	5	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Cloud Security Architecture	CLD-02	Mechanisms exist to ensure the cloud security architecture supports the organization's technology strategy to securely design, configure and maintain cloud employments. Mechanisms exist to ensure multi-tenant owned or managed	5	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Multi-Tenant Environments	CLD-06	assets (physical and virtual) are designed and governed such that provider and customer (tenant) user access is appropriately	5	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information 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	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Information Control Public	accessible information systems. Control information posted or processed on publicly	Functional	intersects with	Content Human Resources	DCH-15	Mechanisms exist to facilitate the implementation of personnel	5	
AC.L1-3.1.22	52.204-21(D)(1)(IV)	Information Control Public	accessible information systems. Control information posted or processed on publicly	Functional	intersects with	Security Management	HRS-05	security controls. Mechanisms exist to require all employees and contractors to apply cybersecurity & data privacy principles in their doily work	8	
		Information	accessible information systems.						-	

Secure Controls Framework (SCF)

CMMC FDE#	FAR 52.204-21 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)
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Rules of Behavior	HRS-05.1	Mechanisms exist to define acceptable and unacceptable rules of behavior for the use of technologies, including consequences for unacceptable behavior.	8	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Social Media & Social Networking Restrictions	HRS-05.2	Mechanisms exist to define rules of behavior that contain explicit restrictions on the use of social media and networking sites, posting information on commercial websites and sharing	8	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Web Security	WEB-01	account information. Mechanisms exist to facilitate the implementation of an enterprise-wide web management policy, as well as associated	3	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public Information	Control information posted or processed on publicly accessible information systems.	Functional	intersects with	Use of Demilitarized Zones (DMZ)	WEB-02	standards, controls and procedures. Mechanisms exist to utilize a Demilitarized Zone (DMZ) to restrict inbound traffic to authorized devices on certain services,	3	
AC.L1-3.1.22	52.204-21(b)(1)(iv)	Control Public	Control information posted or processed on publicly	Functional	intersects with	Client-Facing Web	WEB-04	Protocols and ports. Mechanisms exist to deploy reasonably-expected security controls to protect the confidentiality and availability of client	3	
IA.L1-3.5.1	52.204-21(b)(1)(y)	Identification	Identify information system users, processes acting on	Functional	intersects with	Identification &	IAC-02	based service. Mechanisms exist to uniquely identify and centrally Authenticate, Authorize and Audit (AAA) organizational users and	8	
			behalf of users, or devices. Identify information system users, processes acting on			Organizational Users Identification &		processes acting on behalf of organizational users. Mechanisms exist to uniquely identify and centrally Authenticate. Authorize and Audit (AAA) devices before		
IA.L1-3.5.1	52.204-21(b)(1)(v)	Identification	behalf of users, or devices. Authenticate (or verify) the identities of those users,	Functional	intersects with	Authentication for Devices Identification &	IAC-04	establishing a connection using bidirectional authentication that is cryptographically- based and replay resistant. Mechanisms exist to uniquely identify and centrally	8	
IA.L1-3.5.2	52.204-21(b)(1)(vi)	Authentication	processes, or devices, as a prerequisite to allowing access to organizational information systems.	Functional	intersects with	Authentication for Organizational Users	IAC-02	Authenticate, Authorize and Audit (AAA) organizational users and processes acting on behalf of organizational users. Mechanisms exist to uniquely identify and centrally	5	
IA.L1-3.5.2	52.204-21(b)(1)(vi)	Authentication	processes, or devices, as a prerequisite to allowing access to organizational information systems.	Functional	intersects with	Authentication & Devices	IAC-04	Authenticate, Authorize and Audit (AAA) devices before establishing a connection using bidirectional authentication that is cryptographically-based and replay resistant.	5	
MP.L1-3.8.3	52.204-21(b)(1)(vii)	Media Disposal	Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.	Functional	subset of	Asset Governance	AST-01	Mechanisms exist to facilitate an IT Asset Management (ITAM) program to implement and manage asset management controls.	10	
MP.L1-3.8.3	52.204-21(b)(1)(vii)	Media Disposal	Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.	Functional	intersects with	Secure Disposal, Destruction or Re-Use of Equipment	AST-09	Mechanisms exist to securely dispose of, destroy or repurpose system components using organization-defined techniques and methods to prevent information being recovered from these	8	
MP.L1-3.8.3	52.204-21(b)(1)(vii)	Media Disposal	Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.	Functional	subset of	Data Protection	DCH-01	Mechanisms exist to facilitate the implementation of data protection controls.	10	
MP.L1-3.8.3	52.204-21(b)(1)(vii)	Media Disposal	Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.	Functional	equal	Physical Media Disposal	DCH-08	Mechanisms exist to securely dispose of media when it is no longer required, using formal procedures.	10	
MP.L1-3.8.3	52.204-21(b)(1)(vii)	Media Disposal	Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.	Functional	intersects with	System Media Sanitization	DCH-09	Mechanisms exist to sanitize system media with the strength and integrity commensurate with the classification or sensitivity of the information prior to disposal, release out of organizational control or release for reuse.	8	
PE.L1-3.10.1	52.204-21(b)(1)(viii)	Limit Physical Access	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.	Functional	subset of	Physical & Environmental Protections	PES-01	Mechanisms exist to facilitate the operation of physical and environmental protection controls.	10	
PE.L1-3.10.1	52.204-21(b)(1)(viii)	Limit Physical Access	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.	Functional	subset of	Physical Access Authorizations	PES-02	Physical access control mechanisms exist to maintain a current list of personnel with authorized access to organizational facilities (except for those areas within the facility officially designated as publicly accessible).	10	
PE.L1-3.10.1	52.204-21(b)(1)(viii)	Limit Physical Access	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.	Functional	intersects with	Physical Security of Offices, Rooms & Facilities	PES-04	Mechanisms exist to identify systems, equipment and respective operating environments that require limited physical access so that appropriate physical access controls are designed and implemented for offices, rooms and facilities.	5	
PE.L1-3.10.1	52.204-21(b)(1)(viii)	Limit Physical Access	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.	Functional	intersects with	Equipment Siting & Protection	PES-12	Physical security mechanisms exist to locate system components within the facility to minimize potential damage from physical and environmental hazards and to minimize the	5	
PE.L1-3.10.1	52.204-21(b)(1)(viii)	Limit Physical Access	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.	Functional	intersects with	Transmission Medium Security	PES-12.1	Physical security mechanisms exist to protect power and telecommunications cabling carrying data or supporting information services from interception, interference or damage.	5	
PE.L1-3.10.1	52.204-21(b)(1)(viii)	Limit Physical Access	Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals	Functional	intersects with	Access Control for Output Devices	PES-12.2	Physical security mechanisms exist to restrict access to printers and other system output devices to prevent unauthorized individuals from obtaining the output	5	
PE.L1-3.10.3	52.204-21(b)(1)(ix)	Escort Visitors	Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.	Functional	intersects with	Monitoring Physical Access	PES-05	Physical access control mechanisms exist to monitor for, detect and respond to physical security incidents.	3	
PE.L1-3.10.3	52.204-21(b)(1)(ix)	Escort Visitors	Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.	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	
PE.L1-3.10.3	52.204-21(b)(1)(ix)	Escort Visitors	Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.	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.	3	
PE.L1-3.10.3	52.204-21(b)(1)(ix)	Escort Visitors	Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.	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	5	
PE.L1-3.10.4	Not In FAR 52.204-21	Physical Access Logs	Maintain audit logs of physical access.	Functional	equal	Physical Access Logs	PES-03.3	for access. Physical access control mechanisms generate a log entry for each access attempt through controlled ingress and egress	10	
PE.L1-3.10.5	Not In FAR 52.204-21	Manage Physical Access	Control and manage physical access devices.	Functional	subset of	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).	10	
SC.L1-3.13.1	52.204-21(b)(1)(x)	Boundary Protection	Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information	Functional	subset of	Network Security Controls (NSC)	NET-01	Mechanisms exist to develop, govern & update procedures to facilitate the implementation of Network Security Controls (NSC).	10	
SC.L1-3.13.1	52.204-21(b)(1)(x)	Boundary Protection	Systems. Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information	Functional	intersects with	Layered Network Defenses	NET-02	Mechanisms exist to implement security functions as a layered structure that minimizes interactions between layers of the design and avoids any dependence by lower layers on the functionality or correctness of higher layers.	3	
SC.L1-3.13.1	52.204-21(b)(1)(x)	Boundary Protection	Systems. Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information	Functional	intersects with	Guest Networks	NET-02.2	Mechanisms exist to implement and manage a secure guest network.	3	
SC.L1-3.13.1	52.204-21(b)(1)(x)	Boundary Protection	Systems. Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information	Functional	equal	Boundary Protection	NET-03	Mechanisms exist to monitor and control communications at the external network boundary and at key internal boundaries within the network.	10	
SC.L1-3.13.5	52.204-21(b)(1)(xi)	Public-Access System Separation	systems. Implement subnetworks for publicly accessible system components that are physically or logically separated from	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	5	
SC.L1-3.13.5	52.204-21(b)(1)(xi)	Public-Access System Separation	Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.	Functional	intersects with	Network Segmentation (macrosegementation)	NET-06	Mechanisms exist to ensure network architecture utilizes network segmentation to isolate systems, applications and services that protections from other network resources	5	
SI.L1-3.14.1	52.204-21(b)(1)(xii)	Flaw Remediation	Identify, report, and correct information and information system flaws in a timely manner.	Functional	subset of	Vulnerability & Patch Management Program (VPMP)	VPM-01	Mechanisms exist to facilitate the implementation and monitoring of vulnerability management controls.	10	
SI.L1-3.14.1	52.204-21(b)(1)(xii)	Flaw Remediation	Identify, report, and correct information and information system flaws in a timely manner.	Functional	subset of	Vulnerability Remediation Process	VPM-02	Mechanisms exist to ensure that vulnerabilities are properly identified, tracked and remediated.	10	
SI.L1-3.14.1	52.204-21(b)(1)(xii)	Flaw Remediation	Identify, report, and correct information and information system flaws in a timely manner.	Functional	subset of	Continuous Vulnerability Remediation Activities	VPM-04	an ongoing basis and ensure assets are protected against known attacks.	10	
SI.L1-3.14.1	52.204-21(b)(1)(xii)	Flaw Remediation Malicious Code	system flaws in a timely manner. Provide protection from malicious code at appropriate	Functional	intersects with	Patching Endpoint Security	VPM-05	operating systems, applications and firmware. Mechanisms exist to facilitate the implementation of endpoint	8	
CI   1 2 14 2	52 201-21/b/(1/(XIII)	Protection Malicious Code	locations within organizational information systems. Provide protection from malicious code at appropriate	Functional		Malicious Code		security controls. Mechanisms exist to utilize antimalware technologies to detect	10	
0.14.2		Protection	locations within organizational information systems.	. anotional		Protection (Anti-Malware)				

Secure Controls Framework (SCF)

CMMC FDE#	FAR 52.204-21 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)
SI.L1-3.14.4	52.204-21(b)(1)(xiv)	Update Malicious	Update malicious code protection mechanisms when new	Functional	intersects with	Automatic Antimalware	END-04.1	Mechanisms exist to automatically update antimalware	8	
		Code Protection	releases are available.			Signature Updates		technologies, including signature definitions.		
SI.L1-3.14.5	52.204-21(b)(1)(xv)	xv) System & File Scanning downloa		Functional	intersects with	Always On Protection	END-04.7	Mechanisms exist to ensure that anti-malware technologies are		
			Perform periodic scans of the information system and real-					continuously running in real-time and cannot be disabled or		
			time scans of files from external sources as files are					altered by non-privileged users, unless specifically authorized by	8	
			downloaded, opened, or executed.					management on a case-by-case basis for a limited time period.		

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