NCP CDPP Standard #	NCP CSOP Procedure #	NCP CDPP Standard Name	NIST 800-171 rev 2	NIST 800-171A [assessment criteria]	US CMMC v2.0	CMMC Level 2 Assessment Criteria	AICPA TSC 2017 (SOC 2)	CIS CSC v7.1	CIS CSC v8.0	CSA CCM v3.0.1	ISO 27001 v2013	ISO 27001 v2022	ISO 27002 v2013	ISO 27002 v2022	NIST 800-53 rev4	NIST 800-53 rev5	NIST CSF v1.1	PCI DSS v3.2	US CERT RMM v1.2	US FedRAMP [moderate]	US HIPAA	ITAR Part 120 [limited]	US NISPOM	EMEA UK Cyber Essentials	SCF#
AC-01	P-AC-01	Account Management	3.1.2	3.1.1[a] 3.1.1[b] 3.1.1[c] 3.1.1[d] 3.1.1[e] 3.1.1[f]	AC.L1-3.1.2	AC.L1-3.1.1[a] AC.L1-3.1.1[b] AC.L1-3.1.1[c] AC.L1-3.1.1[d] AC.L1-3.1.1[e] AC.L1-3.1.1[f]	CC6.1	16.13		IAM-10			9.2.5 9.2.6	5.15 5.16 5.18	AC-2	AC-2	PR.AC-1	8.1.3-8.1.5 8.2.2 8.5-8.5.1 8.6 8.7	AM:SG1.SP1 AM:SG1.SP2 AM:SG1.SP3 AM:SG1.SP4 ID:SG2.SP1 ID:SG2.SP2	AC-2	164.312(a)(2)(ii)		8-606		IAC-15
AC-02	P-AC-02	Access Enforcement	3.1.1	3.1.2[a] 3.1.2[b] 3.1.7[a] 3.1.7[b] 3.1.7[c]	AC.L1-3.1.1	AC.L1-3.1.2[a] AC.L1-3.1.2[b] AC.L2-3.1.7[a] AC.L2-3.1.7[b] AC.L2-3.1.7[c]	CC6.1						9.2.6 9.4	5.18	AC-3 AC-6	AC-3 AC-6		7.1-7.1.4 7.2-7.2.1 7.2.3	AM:SG1.SP1 ID:SG1.SP1 ID:SG1.SP2 ID:SG1.SP3 TM:SG4.SP1	AC-3 AC-6			8-606		IAC-20
AC-03	P-AC-03	Data Flow Enforcement – Access Control Lists (ACLs)	3.1.3	3.1.3[a] 3.1.3[b] 3.1.3[c] 3.1.3[d] 3.1.3[e]	AC.L2-3.1.3	AC.L2-3.1.3[a] AC.L2-3.1.3[b] AC.L2-3.1.3[c] AC.L2-3.1.3[d] AC.L2-3.1.3[e]	CC6.1 CC6.6	11.2	3.3 4.6 12.6 13.4				9.4.1 13.1.1	5.14 8.3 8.20	AC-4	AC-4		1.1-1.1.7 1.2-1.2.3 3.3 3.5 7.2-7.2.3	TM:SG4.SP1	AC-4					NET-04
AC-04	P-AC-04	Least Privilege	3.1.5	3.1.5[a] 3.1.5[b] 3.1.5[c] 3.1.5[d]	AC.L2-3.1.5	ACL2-3.1.3[a] ACL2-3.1.3[b] ACL2-3.1.3[c] ACL2-3.1.5[a] ACL2-3.1.5[a] ACL2-3.1.5[b] ACL2-3.1.5[d] ACL2-3.1.5[d] ACL2-3.1.5[d] ACL2-3.1.5[d] ACL2-3.1.5[d]	CC6.1	14.6	5.4			IE	9.1.2 9.2.2	5.15 5.18 1.3 8.2	AC-6	17	PR.AC-4		AM:SG1.SP1 ID:SG1.SP1 ID:SG1.SP2 ID:SG1.SP3	AC-6			8-303		IAC-21
AC-05	P-AC-05	Authorize Access to Security Functions	3.1.5		AC.L2-3.1.5					.10	W		55	ن	AC-6(1)	AC-6(1)				AC-6(1)					IAC-21.1
AC-06	P-AC-06	Privileged Accounts	3.1.5		AC.L2-3.1.5					EK		Chi	JV.	E	AC-6(5)	AC-6(5)				AC-6(5)					IAC-21.3
AC-07	P-AC-07	Non-Privileged Access for Non- Security Functions	3.1.6	3.1.6[a] 3.1.6[b]	AC.L2-3.1.6	AC.L2-3.1.6[a] AC.L2-3.1.6[b]			5.4	11/1	3	CE			AC-6(2)	AC-6(2)				AC-6(2)					IAC-21.2
AC-08	P-AC-08	Auditing Use of Privileged Functions	3.1.7	3.1.7[d]	AC.L2-3.1.7	AC.L2-3.1.7[d]		4.3	Yb,	کرے	R				AC-6(9)	AC-6(9)		10.2-10.2.7		AC-6(9)					IAC-21.4
AC-09	P-AC-09	Prohibit Non-Privileged Users from Executing Privileged Functions	3.1.7		AC.L2-3.1.7			4.8	R						AC-6(10)	AC-6(10)				AC-6(10)					IAC-21.5
AC-10	P-AC-10	Account Lockout	3.1.8	3.1.8[a] 3.1.8[b]	AC.L2-3.1.8	AC.L2-3.1.8[a] AC.L2-3.1.8[b]	V	11	4.10				6.2.1	8.1	AC-7	AC-7		8.1.6 8.1.7	TM:SG4.SP1	AC-7	164.312(a)(2)(iii)		8-609		IAC-22
AC-11	P-AC-11	System Use Notification (Logon Banner)	3.1.9	3.1.9[a] 3.1.9[b]	AC.L2-3.1.9	AC.L2-3.1.9[a] AC.L2-3.1.9[b]									AC-8	AC-8			TM:SG4.SP1	AC-8			8-609		SEA-18
AC-12	P-AC-12	Session Lock	3.1.10	3.1.10[a] 3.1.10[b] 3.1.10[c]	AC.L2-3.1.10	AC.L2-3.1.10[a] AC.L2-3.1.10[b] AC.L2-3.1.10[c]		16.11	4.3						AC-2(5) AC-11	AC-2(5) AC-11			TM:SG4.SP1	AC-2(5) AC-11	164.312(a)(2)(iii)		8-609		IAC-24
AC-13	P-AC-13	Pattern-Hiding Displays	3.1.10		AC.L2-3.1.10										AC-11(1)	AC-11(1)				AC-11(1)					IAC-24.1



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				Mapping & Assessment	Criteria				Methods To Comply			Compliance Tracker	
CMMC Group	CMMC Practice #	NIST 800-171 R2 Control	FAR 52.204-21 Control #	CMMC Assessment #	Assessment Objective	Reference	Focus of Practice / Control	Group Policy Object (GPC	Practices	Technology Considerations	Compliance Status	Assigned Stakeholder	Notes
				Limit information system access to authorized users, processes acting or behalf of authorized users or devices [including other information	Determine if:	Reference: NIST 800 171A	•		- Active Directory (AD) or LDAP authentication Architectural review of planned network topology changes.				
				systems].		3.1.1	_		- Change Control Board (CCB) approval for changes.				
				AC.1.3.1.1[a] AC.11-3.1.1[b]	authorized users are identified. processes acting on behalf of authorized users are identified.	3.1.1[a] 3.1.1[b]			Data flow diagrams Documented service tickets from managers are required to justify any user changes.				
				AC.L1-3.1.1[c]	devices (and other systems) authorized to connect to the system are identified.				Disable session after fifteen (15) minutes of inactivity. For standard users, access is revoked within twenty-four (24 hours) of notification to service desk.				
				AC.11-3.1.1[d] AC.11-3.1.1[e]	system access is limited to authorized users. system access is limited to processes acting on behalf of authorized users.	3.1.1[d] 3.1.1[e]			- Information Assurance (IA) testing for new technologies.				
				AC.11-3.1.1[f]	system access is limited to authorized devices (including other systems).	3.1.1[f]			- Initial passwords are issued to the user's manager Network diagrams				
	AC11-3.1.1	3.1.1	(b)(1)(i)	Examine	Access control policy; procedures addressing account management; system security plan; system design documentation; system configuration settings and associated documentation; list of active system accounts and the name of the individual associated with each account; notification or records of recently transferred, speated, or terminated engineges; list of conditions for group and role membership; list of recently disabled system accounts along with the name of the individual associated with each account; access authorization records, account namagement compliance reviews, system monitoring execution, second ladge light and records, fits of devices and systems authorized to connect to organizational systems; other relevant documents or records.		Technical Configurations (e.g., security settings)	Yes	Network dargement. & allocations lock the user/herrice out after six (6) consecutive failed attempts. - Password reset in force dupon entering serrory as password. - Role Based Access Control (RAC) for user permission categories. - Role Based Access Control (RAC) for user permission categories. - Security incident Event Manager (ISEM) or log aggregator that afters on certain event criteria. - Solo fee wender management. - Solo fee to whose management. - Solo feet for how user identities are verified to reset passwords (e.g., answer several predetermined security questions). - Solve acts for new cace access management. - Solve acts for reservice desk to remove/disable inactive user accounts that have not been used within ninety (90) days. - Solo for terrors access management. - Thinty (S) initiaties.	- Active Directory - Network Policy Server (NPS) - Privileged Account Management (PAM) - Security incident Event Manager (SEM) - VPN Concentrator	Compliant		
				Interview	Personnel with account management responsibilities; system or network administrators; personnel with information security responsibilities.								
Access Control (AC)				Test	Organizational processes for managing system accounts; mechanisms for implementing account management.	Reference: NIST 800		V .	- Active Directory Group Policy Objects (GP) - Active Directory Group Policy (GP) - Active Directory Group Policy (GP) - Active Directory Group Policy (GP)				
				Provide privacy and security notices consistent with applicable Controller Unclassified Information [CUI] rules.	Determine #:	171A 3.1.9			- Non-Windows systems are confided with a near that will work on Unix/Linux systems, as well as network gear, such as firewalls and routers.				
				AC.L2-3.1.9[a]	privacy and security notices required by CUI-specified rules are identified, consistent, and associated with the specific CUI category.				- Standardized logon banners real cone for indows-based systems and one for non-Windows systems. - Users must acknowledge. (e.g., 1) the logon been to proceed with logon.				
	****			AC.L2-3.1.9[b]	privacy and security notices are displayed.	3.1.9[b]	inis. e (e.g., polic						
1 1	AC12-3.1.9	3.1.9			Privacy and security policies, procedures addressing system use notification; documented approval of system use notification messages or banners; system audit logs and records; system design documentation, use actionwide		dard procedures)	Yes		- Active Directory	Non-Compliant		
				Examine									
				Interview	System or network administrators; personnel with information security responsibilities; personnel with responsibility for providing legal advice; system developers.								
				Test	Mechanisms implementing system use notification.								
				Limit use of portable storage devices on external systems.	Determine if:	2: NIS 300 1A)		- Accomplie Use policies anty awareness training.				
				AC.L2-3.1.21[a]	the use of portable storage devices containing CUI on external systems is identified and documented.	3.1.21 2.1.21[a]							
1 1				AC.L2-3.1.21[b]	limits on the use of portable storage devices containing COI on external systems are defined.	3.1.21[a] 3.1.21[b]		O. William					
	AC.L2-3.1.21	3.1.21		AC.L2-3.1.21[c]	the use of portable storage devices containing CUI on external systems is limited as defined. Access control policy; procedures addressing the use of external systems; system securify alan; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; procedures addressing the use of external systems; system securify alan; systems control policy; and the use of external systems control policy.	3.1.21[c]	Administra (e.g., policies	d Party		Active Directory Mobile Device Management (MDM)	Not Applicable		
				Examine	associated documentation; system connection or processing agreements, accounts of ement documents or records. Personnel with responsibilities for restricting or prohibiting use of organization con level of legs device we external systems; system or network administrators, personal with information security responsibilities.			Solution					
				Interview									
				Test	Mechanisms implementing restrictions on use of portable storage devices.								
				Limit information system access to the types of transactions and	Determine if:	Referer NIST			Directly CDAP authentication. Chitectural re of planned network topology changes.				
				functions that authorized users are permitted to execute. AC.L1-3.1.2[a]	the types of transactions and functions that authorized users are permitted to execute are defined.	3 3.1 3.1	-		onge 6 yo i Board (CCB) approval for changes. Julyarans Mented service tickets from managers are required to justify any user changes.				
1 1				AC.L1-3.1.2[b]	system access is limited to the defined types of transactions and functions for authorized users.								
	AC.11-3.1.2	3.1.2	(b)(1)(ii)	Examine Interview	Access control policy; procedures addressing access enforcement; system security classy who can be made access authorizations, system audit logs and recommended to the control of the con	o s	Tech L.C. surations	Yes	In Stable session after (fitteen (15) minutes of inactivity, - for standard user, access is revoked within twenty-four (24 hours) of notification to service desk Information Assurance ((A) testing for new technologies Information Assurance ((A) testing for new technologies Information Assurance ((A) testing for new technologies Network diagrams - Network diagrams - Network diagrams - Network diagrams - Password reset is forced upon entering a temporary password Password reset is forced upon entering a temporary password Secure system configuration to perform a submoration entering of remote access Secure in prince registration tage foreign a submoration entering of remote access Security incidents Event Manager (SISM) or log aggregator that alerts on certain event criteria SOP test for how accounts are added, deleted or modified SOP east for how accounts are added, deleted or modified SOP east for remote access management SOP east for remote access management SOP east for how deceded and the solution of the solution	- Active Directory - Network Policy Server (NPS) - Printinged Account Management (PAM) - Security incident Event Manager (SEM) - VPN Concentrator	Outsourced / Contracted		
				Test	Mechanisms implementing access control cy.	Reference: NIST 900	S		- SOP exist for service desk to remove/disable inactive user accounts that have not been used within ninety (90) days. - COD for conduct operations. - Managers and/or process owners determine what least privilege means in practical terms to conduct operations.				
				Employ the principle of least privilege, including for specific security functions and privileged accounts.	Determine if:	171A			- Based on least privilege roles are assigned permissions and other criteria (e.g., time restrictions).				
				AC.L2-3.1.5[a]	privileged accounts are idea eas.	3.1.5 3.1.5[a]	Technical Configurations (e.g., security settings)		 Only authorized security personnel are provided permissions to access security and security functions and security-related information. To Delatin privilegad excess, those users must have a valid business justification. Specialized security awareness training is provided to privileged users. Privileged users acknowledge in writing that they received specialized awareness training. 				
				AC.L2-3.1.5[b] AC.L2-3.1.5[c]	privileged accounts are idea etc. access to privileged account butho accordance with the principle of least privilege. security functions are identify	3.1.5[b] 3.1.5[c]							
				AC.L2-3.1.5[d]	access to security functions is a corried in accordance with the principle of least privilege.	3.1.5[c] 3.1.5[d]		N/A	Privileged users provide evidence of technical competence (e.g., CISSP, CISA, MCITP, CCNA, etc.).				
	AC.12-3.1.5	3.1.5		Examine	Access control policy, procedular addressing account management, system security plan; system design documentation; system configuration settings and associated documentation; it of active system accounts and the name of the individual associated with each account; its of condition for group and rote membership; so difficients on records of receivity funderires, separate, or terminated employees; list of recently disabled system accounts along with the name of the individual associated with each account; ascepts and understanding received, account management complance reviews, system emploring-guide cross's; procedure addressing least privilege; list of system's functions (seleptived in hardware, software, and firmware) and security-relevant information for which access is to be explicitly authorized; list of system generated privileged accounts, list of system administration personnel; other relevant documents or records.					- Active Directory - Privileged Account Management (PAM)	Unknown		
				Interview	Personnel with account management responsibilities; system or network administrators; personnel with information security responsibilities; personnel with responsibilities for defining least privileges necessary to accomplish specified tasks.								
				Test	Organizational processes for managing system accounts; mechanisms for implementing account management; mechanisms implementing least privilege functions; mechanisms prohibiting privileged access to the system.								
				Use non-privileged accounts or roles when accessing nonsecurity		Reference: NIST 800			- SOP dictate users are prohibited from using privileged accounts to perform non-privileged functions.				
				functions.	Determine if:	171A 3.1.6							
				AC.L2-3.1.6[a]	nonsecurity functions are identified.	3.1.6[a]							
	AC.L2-3.1.6	3.1.6		AC.L2-3.1.6fbl	Lusers are required to use non-privileged accounts or roles when accessing nonsecurity functions. Access control policy; procedures addressing least privilege; system security plan; list of system-generated security functions assigned to	3.1.6fbl	Administrative (e.g., policies standards & procedures)	N/A		N/A	Unknown		
				Examine	system accounts or roles; system configuration settings and associated documentation; system audit logs and records; other relevant documents or records.		a processor						
				Interview	Personnel with responsibilities for defining least privileges necessary to accomplish specified organizational tasks; personnel with information security responsibilities; system or network administrators.								
				Test	Mechanisms implementing least privilege functions.								
				Limit unsuccessful logon attempts.	Determine if:	Reference: NIST 800 171A			Active Directory Group Policy Objects (GPOs) lock accounts until released by an administrator. Active Directory Group Policy Objects (GPOs) lock accounts after six (6) consecutive, unsuccessful access attempts.				
				AC.L2-3.1.8[a]	the means of limiting unsuccessful logon attempts is defined.	3.1.8 3.1.8[a]							
1 1	ΔC I 2-3.1.R	3.1.8		AC.L2-3.1.8[b]	the defined means of limiting unsuccessful logon attempts is implemented.	3.1.8[b]	Technical Configurations	Vac		- Active Directory	Hakaawa		

Standard #	Procedure #	Standard Name	NIST 800-171 rev 2	CMMC v2.0	Security Concept Being Addressed By Standard	Implementation Status	Primary "Owner" To Ensure Implementation (e.g., team, group or role)	Individual(s) Assigned To Role
AC-01	P-AC-01	Account Management	3.1.2	AC.L1-3.1.2	Does the organization proactively govern account management of individual, group, system, application, guest and temporary accounts?	Compliant		
AC-02	P-AC-02	Access Enforcement	3.1.1	AC.L1-3.1.1	Does the organization enforce logical access permissions through the principle of "least privilege?"	Non-Compliant		
AC-03	P-AC-03	Data Flow Enforcement – Access Control Lists (ACLs)	3.1.3	AC.L2-3.1.3	Does the organization design, implement and review firewall and router configurations to restrict connections between untrusted networks and internal systems?	Not Applicable		
AC-04	P-AC-04	Least Privilege	3.1.5	AC.L2-3.1.5	Does the organization utilize the concept of least privilege, allowing only authorized access to processes necessary to accomplish assigned tasks in accordance with organizational business functions?	Outsourced / Contracted		
AC-07	P-AC-07	Non-Privileged Access for Non- Security Functions	3.1.6	AC.L2-3.1.6	Does the organization prohibit privileged users from using privileged accounts, while performing non-security functions?	Unknown		
AC-08	P-AC-08	Auditing Use of Privileged Functions	3.1.7	AC.L2-3.1.7	Does the organization audit the execution of privileged functions?	W		
AC-09	P-AC-09	Prohibit Non-Privileged Users from Executing Privileged Functions	3.1.7	AC.L2-3.1.7	Does the organization prevent non-private as early measuring privileged functions to include disability (crumwent of water for home security safeguards / countermeasures?	Unknown		
AC-10	P-AC-10	Account Lockout	3.1.8	AC.L2-3.1.8	Doc Acc sizzation order a unit for consecutive immild or attempts by a large as steel or steel or period and autoon call secretary and maximum that consuccessful attempts is exceeded.	Unknown		
AC-11	P-AC-11	System Use Notification (Logon Banner)	3.1.9	AC.L2-3.1.9	Does the organization utilize of on use notification. Significances that display an approved system use notification or each of before granting access to the system that provide an and security disces?	Unknown		
AC-12	P-AC-12	Session Lock	3.1.10	AC 3.1.10	On the case witton ledwer a session lock after an organization-selfened time period of inact. Get upon receiving a request from a user and retain the session lock until the user re- abilities access using established identification and authentication methods?	Unknown		
AC-13	P-AC-13	Pattern-Hiding Displays	3.1.10	AC.12-3.1.10	Oses the organization implement pattern-hiding displays to conceal information previously visible on the display during the session lock?	Unknown		
AC-14	P-AC-14	Session Termination	3.1.11	AC.L2-3.1.11	Are automated mechanisms used 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?	Unknown		
AC-15	P-AC-15	Automated Monitoring & Control	3.1.12	AC.L2-3.1.12	Are automated mechanisms used to monitor and control remote access sessions?	Unknown		
AC-16	P-AC-16	Protection of Confidentiality / Integrity Using Encryption	3.1.13	AC.L2-3.1.13	Are cryptographic mechanisms used to protect the confidentiality and integrity of remote access sessions?	Unknown		
AC-17	P-AC-17	Managed Access Control Points	3.1.14	AC.L2-3.1.14	Does the organization route all remote accesses through managed network access control points (e.g.?, VPN concentrator)?	Unknown		
AC-18	P-AC-18	Privileged Commands & Access	3.1.15	AC.L2-3.1.15	Does the organization restrict the execution of privileged commands and access to security-relevant information via remote access only for compelling operational needs?	Unknown		
AC-19	P-AC-19	Wireless Networking	3.1.16	AC.L2-3.1.16	Does the organization control authorized wireless usage and monitor for unauthorized wireless access?	Unknown		
AC-20	P-AC-20	Authentication & Encryption	3.1.17	AC.L2-3.1.17	Are authentication and cryptographic mechanisms used to protect wireless access?	Unknown		
AC-21	P-AC-21	Access Control For Mobile Devices	3.1.18	AC.L2-3.1.18	Do access control mechanisms for mobile devices enforce requirements for the connection of mobile devices to organizational systems?	Unknown		
AC-22	P-AC-22	Full Device & Container-Based Encryption	3.1.19	AC.L2-3.1.19	Are cryptographic mechanisms utilized to protect the confidentiality and integrity of information on mobile devices through full-device or container encryption?	Unknown		
AC-23	P-AC-23	Use of External Information Systems	3.1.20	AC.L1-3.1.20	Does the organization govern how external parties, systems and services are used to securely store, process and transmit data?	Unknown		

