

CMMC 2.0 Automated Mapping Summary

Accurately automate the assessment of
CMMC 2.0 network requirements

CMMC 2.0 Mapping Document

Nipper InfraSight automatically analyse CMMC non-compliances they identify, to reveal the risk to the network if the misconfiguration is exploited, providing an easy way to categorize risks and helping to inform remediation workflows.

Domain	Level	Requirement #	Nipper InfraSight	See page
Identification and Authentication (IA)	1	IA.L1-b.1.vi Authentication [FCI Data]	<input checked="" type="checkbox"/>	3
System and Communications Protection (SC)	1	SC.L1-b.1.x Boundary Protection [FCI Data]	<input checked="" type="checkbox"/>	3
Access Control (AC)	2	AC.L2-3.1.1 Authorized Access Control [CUI Data]	<input checked="" type="checkbox"/>	4
		AC.L2-3.1.8 Unsuccessful Logon Attempts	<input checked="" type="checkbox"/>	
		AC.L2-3.1.9 Privacy & Security Notices	<input checked="" type="checkbox"/>	
		AC.L2-3.1.10 Session Lock	<input checked="" type="checkbox"/>	
		AC.L2-3.1.12 Control Remote Access	<input checked="" type="checkbox"/>	
		AC.L2-3.1.13 Remote Access Confidentiality	<input checked="" type="checkbox"/>	
		AC.L2-3.1.17 Wireless Access Protection	<input checked="" type="checkbox"/>	
Audit and Accountability (AU)	2	AU.L2-3.3.1 System Auditing	<input checked="" type="checkbox"/>	5
		AU.L2-3.3.2 User Accountability	<input checked="" type="checkbox"/>	
		AU.L2-3.3.7 Authoritative Time Source	<input checked="" type="checkbox"/>	
Configuration Management (CM)	2	CM.L2-3.4.3 System Change Management	<input checked="" type="checkbox"/>	6
		CM.L2-3.4.7 Nonessential Functionality	<input checked="" type="checkbox"/>	
Identification and Authentication (IA)	2	IA.L2-3.5.7 Password Complexity	<input checked="" type="checkbox"/>	7
		IA.L2-3.5.8 Password Reuse	<input checked="" type="checkbox"/>	
		IA.L2-3.5.9 Temporary Passwords	<input checked="" type="checkbox"/>	
		IA.L2-3.5.10 Cryptographically-Protected	<input checked="" type="checkbox"/>	
System and Communications Protection (SC)	2	SC.L2-3.13.6 Network Communication by Exception	<input checked="" type="checkbox"/>	8
		SC.L2-3.13.11 CUI Encryption	<input checked="" type="checkbox"/>	

Security Domain: Identification and Authentication (IA)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Identification and Authentication (IA)	1	IA.L1-b.1.vi Authentication [FCI Data]	Require that users log out of the system after [Assignment: organization-defined time period] of expected inactivity or when Assignment: organization defined circumstances]	[a] Determine if the identity of each user is authenticated or verified as a prerequisite to system\access	<input checked="" type="checkbox"/>

Security Domain: System and Communications Protection (SC)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Identification and Authentication (IA)	1	SC.L1-b.1.x Boundary Protection [FCI Data]	Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems)	[c,d] Determine if communications are monitored at the external system boundary, and communications are monitored at key internal boundaries	<input checked="" type="checkbox"/>
				[e,f] Determine if the identity of each user is authenticated or verified as a prerequisite to system\access	<input checked="" type="checkbox"/>

Security Domain: Access Control (AC)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Access Control (AC)	2	AC.L2-3.1.1 Authorized Access Control [CUI Data]	Limit system access to authorized users, processes acting on behalf of authorized users, and devices (including other systems)	[d] Determine if system access is limited to authorized users	<input checked="" type="checkbox"/>
		AC.L2-3.1.8 Unsuccessful Logon Attempts	Limit unsuccessful logon attempts.	[b] Determine if the defined means of limiting unsuccessful logon attempts is implemented	<input checked="" type="checkbox"/>
		AC.L2-3.1.9 Privacy & Security Notices	Provide privacy and security notices consistent with applicable CUI rules.	[b] Determine if privacy and security notices are displayed	<input checked="" type="checkbox"/>
		AC.L2-3.1.10 Session Lock	Use session lock with patternhiding displays to prevent access and viewing of data after a period of inactivity.	[b] Determine if access to the system and viewing of data is prevented by initiating a session lock after the defined period of inactivity	<input checked="" type="checkbox"/>
		AC.L2-3.1.12 Control Remote Access	Monitor and control remote access sessions.	[c] Determine if remote access sessions are controlled	<input checked="" type="checkbox"/>
		AC.L2-3.1.13 Remote Access Confidentiality	Employ cryptographic mechanisms to protect the confidentiality of remote access sessions.	[b] Determine if cryptographic mechanisms to protect the confidentiality of remote access sessions are implemented	<input checked="" type="checkbox"/>
		AC.L2-3.1.17 Wireless Access Protection	Protect wireless access using authentication and encryption	[a] Determine if wireless access to the system is protected using authentication	<input checked="" type="checkbox"/>

Security Domain: Audit and Accountability (AU)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Audit and Accountability (AU)	2	AU.L2-3.3.1 System Auditing	Create and retain system audit logs and records to the extent needed to enable the monitoring, analysis, investigation, and reporting of unlawful or unauthorized system activity	[c] Determine if audit records are created (generated)	<input checked="" type="checkbox"/>
		AU.L2-3.3.2 User Accountability	Ensure that the actions of individual system users can be uniquely traced to those users so they can be held accountable for their actions.	[a,b] Determine if the content of the audit records needed to support the ability to uniquely trace users to their actions is defined; and audit records, once created, contain the defined content	<input checked="" type="checkbox"/>
		AU.L2-3.3.7 Authoritative Time Source	Provide a system capability that compares and synchronizes internal system clocks with an authoritative source to generate time stamps for audit records	[a] Determine if internal system clocks are used to generate time stamps for audit records [c] Determine if internal system clocks used to generate time stamps for audit records are compared to and synchronized with the specified authoritative time source	<input checked="" type="checkbox"/>

Security Domain: Configuration Management (CM)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Configuration Management (CM)	2	CM.L2-3.4.3 System Change Management	Track, review, approve or disapprove, and log changes to organizational systems.	[d] Determine if changes to the system are logged	<input checked="" type="checkbox"/>
		CM.L2-3.4.7 Nonessential Functionality	Restrict, disable, or prevent the use of nonessential programs, functions, ports, protocols, and services.	[o] Determine if the use of nonessential services is restricted, disabled, or prevented as defined	<input checked="" type="checkbox"/>

Security Domain: Identification and Authentication (IA)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Identification and Authentication (IA)	2	IA.L2-3.5.7 Password Complexity	Enforce a minimum password complexity and change of characters when new passwords are created.	<p>[c] Determine if minimum password complexity requirements as defined are enforced when new passwords are created</p> <hr/> <p>[d] Determine if minimum password change of character requirements as defined are enforced when new passwords are created</p>	<input checked="" type="checkbox"/>
		IA.L2-3.5.8 Password Reuse	Prohibit password reuse for a specified number of generations.	[b] Determine if reuse of passwords is prohibited during the specified number of generations	<input checked="" type="checkbox"/>
		IA.L2-3.5.9 Temporary Passwords	Allow temporary password use for system logons with an immediate change to a permanent password.	[a] Determine if an immediate change to a permanent password is required when a temporary password is used for system logon	<input checked="" type="checkbox"/>
		IA.L2-3.5.10 Cryptographically Protected	Deny network communications traffic by default and allow network communications traffic by exception (i.e., deny all, permit by exception).	[a] Determine if passwords are cryptographically protected in storage	<input checked="" type="checkbox"/>

Security Domain: System and Communications Protection (SC)

Security Domain	Level	Requirement #	Requirement Statement	Assessment Objective	Automated Check
Identification and Authentication (IA)	1	SC.L2-3.13.6 Network Communication by exception	Deny network communications traffic by default and allow network communications traffic by exception (i.e., deny all, permit by exception).	[a] Determine if network communications traffic is denied by default	<input checked="" type="checkbox"/>
		SC.L2-3.13.11 CUI Encryption	Employ FIPS-validated cryptography when used to protect the confidentiality of CUI.	[a] Determine if FIPSvalidated cryptography is employed to protect the confidentiality of CUI	<input checked="" type="checkbox"/>



Get in touch to arrange a demonstration of how to automate the process of assessing network infrastructure and prioritizing remediation based on CMMC risk.

[Request a demo](#)

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