## **INFODEFENSE**

# **Five Steps to CMMC Compliance**



**Kevin Wheeler**Founder & Managing Director

### Why is CMMC so Important?





Source: Katie Arrington



#### **CMMC Facts**

- Originally released in January 2020, the Cybersecurity Maturity Model Certification (CMMC) is intended to improve DIB security
- Based on NIST SP 800-171 which is referenced in DFARS 252.204-7012
- Requirement in defense contracts as soon as 2023 (but probably in 2024)

### **Five Steps to CMMC Compliance**

- 1. Assess CMMC Compliance Status
- 2. Develop a Plan of Action & Milestones (POA&M)
- 3. Create a System Security Plan (SSP)
- 4. Implement Security Capabilities
- 5. Gather Evidence to Demonstrate Compliance

# **CMMC Preparation Effort**

CMMC Preparation Task	Time	Expertise				
Gap Analysis	2 Weeks+	High				
Plan of Action & Milestones	2 Months+	Medium				
System Security Plan	4 Months+	High				
Remediation	12 Months+*	High				
Evidence Collection	3 Months	Low				

<sup>\*</sup> Assuming Low NIST SP 800-171 Compliance Level

# 1. Assess CMMC Compliance Status

### NIST SP 800-171 Gap Analysis



InfoDefense CMMC/NIST SP 800-171 Self-Assessment Tool

### NIST SP 800-171 Assessment Objectives

- ☐ Download NIST SP 800-171A
- Review Assessment
  Objectives for Each Security
  Requirement
- Don't Overlook NFO Controls in NST SP 800-171, Rev 2 – Appendix E

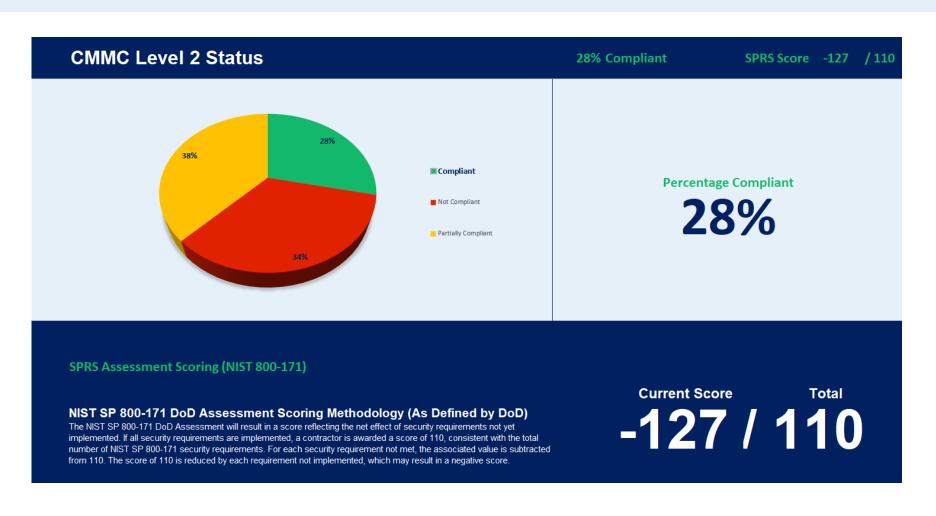
#### 3.1 ACCESS CONTROL

b								
3.1.1	Limit syst	EQUIREMENT  m access to authorized users, processes acting on behalf of authorized users, s (including other systems).						
	ASSESSME Determin	e if:						
	3.1.1[a]	authorized users are identified.						
	3.1.1[b]	processes acting on behalf of authorized users are identified.						
	3.1.1[c]	devices (and other systems) authorized to connect to the system are identified.						
	3.1.1[d]	system access is limited to authorized users.						
	3.1.1[e]	system access is limited to processes acting on behalf of authorized users.  system access is limited to authorized devices (including other systems).						
	3.1.1[f]							
	Examine:	L ASSESSMENT METHODS AND OBJECTS  (SELECT FROM: 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; notifications or records of recently transferred, separated, or terminated employees; 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 management compliance reviews; system monitoring records; system audit logs and records; list of devices and systems authorized to connect to organizational systems; other relevant documents or records].  [SELECT FROM: Personnel with account management responsibilities; system or network administrators; personnel with information security responsibilities].						

Test: [SELECT FROM: Organizational processes for managing system accounts; mechanisms for

implementing account management].

#### **Submit Your SPRS Score**



#### **Common Reasons for Inaccuracies**

- Inadequate polices, standards and other compliance-related documentation
- Security monitoring and incident response capabilities
- "FIPS Compliant" vs. "FIPS Validated" Encryption (FIPS Validated Modules)
- ▶ FedRAMP Equivalency Required for Cloud Services

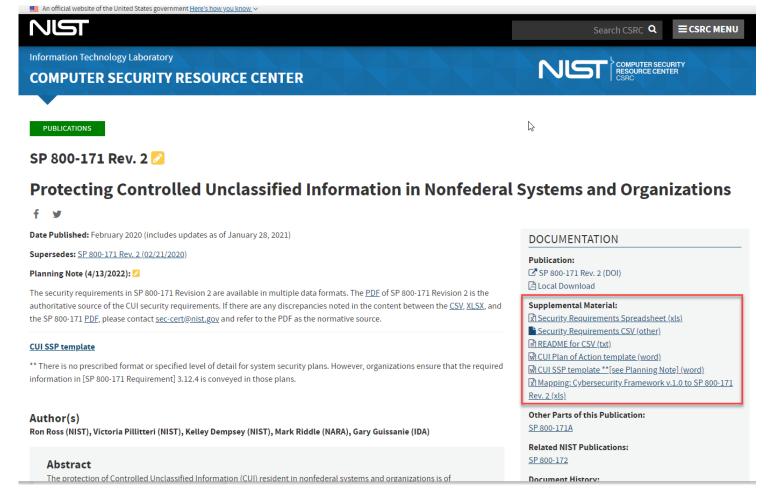
# 2. Develop a POA&M

#### **Plan of Action & Milestones**

- Remediation plan in DoD recognized format
- Include all CMMC compliance gaps identified in Step 1
- NIST publishes a template on NIST SP 800-171A web page.

POA&M ID	NIST Ref.	Weakness	Responsible Team	Security Controls	Point of Contact	Human Resources Require	Processes & Technology Required	Completion Date	Milestones with Completion Dates	Changes to Milestone	Deficiency Identified by	Risk Level (Low/Med/Hig	Estimated Cost		Comm ent
1	3.1.1 3.1.2 3.13.3	There is no written procedure that covers access chages.	IT Operations 🗘	Develop a process to manage changes to user access for instances such as changes in job roles and terminations.	Jonathan Archer	1 FTE	Policy, Standards & Procedures	30-Aug-23	Create an account request authorization procedure. Utilize least privilege for all users.		James Kirk	Med		On Hold	
2	3.1.3	There is no policy that governs the flow of CUI in the organization.	Π Operations	Develop a policy to govern the flow of CUI so that only users that have a bonalide business requirement for CUI access are permitted access to CUI.	Benjamin Sisoo	1FTE	Policy, Standards & Procedures	30-Aug-23	Develop CUI Governance Posloy Limit access to CUI that is in physical format. Limit access to CUI that is in logical format.		Jame Kirk	Med		Not Started	
												Select		Select	
												Select		Select	
												Select		Select	
												Select		Select	

#### **NIST CMMC Resources**

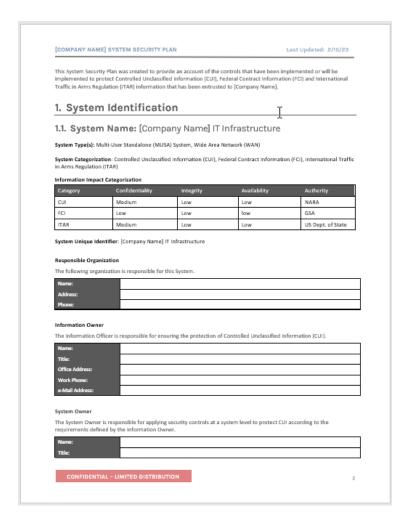


https://csrc.nist.gov/publications/detail/sp/800-171/rev-2/final

# 3. Create a System Security Plan (SSP)

### **System Security Plan**

- Section 1 System Identification (Roles, Responsibilities & Contact Information)
- Section 2 System Environment (System Architecture, CUI Flow Analysis & CMMC Scope, Overview of Security Controls)
- Section 3 CMMC Compliance
   (Description of how each requirement is met including artifact reference)



Note: Template can be downloaded from NIST SP 800-171A website

# 4. Implement Security Capabilities

### **Cyber Security Program Elements**

- ✓ Plan of Action & Milestones
- ✓ System Security Plan
- ✓ Detailed security, network, and system diagrams
- ✓ Information Flow Analysis for CUI and FCI
- ☐ Policies, standards and procedures that address all practices
- Centralized security logging and alerting
- Continuous security and compliance monitoring
- ☐ Standard secure server and workstation configurations
- ☐ Vulnerability management program
- ☐ Strong logical access control (including multi-factor authentication)
- ☐ Periodic risk & security assessment
- Security awareness program
- ☐ Mobile device management
- ☐ Cyber incident response capability (plan, training, tools)
- ☐ FIPS validated encryption
- ☐ Firewall, malware protection, DNS filtering, web content filtering, etc.

# **5. Gather CMMC Compliance Evidence**

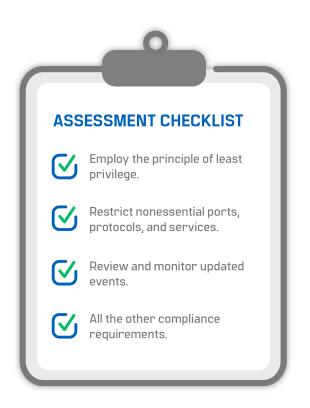
#### **Artifacts**

- ➤ **Gather** screenshots. pictures, records, reports, logs and other evidence
- Organize artifacts in a referenceable format
- Reference artifacts from the System Security Plan



#### **CMMC Certification Process**

- Assessed by third-party assessor organization (C3PAO)
- Certification will last 3 years
- Requires a comprehensive cyber security program



### **CMMC Benefits**

- Stay ahead of DoD requirements
- Increase cyber security posture
- Demonstrates cyber security is taken seriously
- Competitive Advantage



### **Next Steps**

- Complete your Gap Analysis
- Submit your SPRS Score
- Create your POA&M and SSP
- Begin work toward full compliance

### INFODEFENSE

## **Questions?**

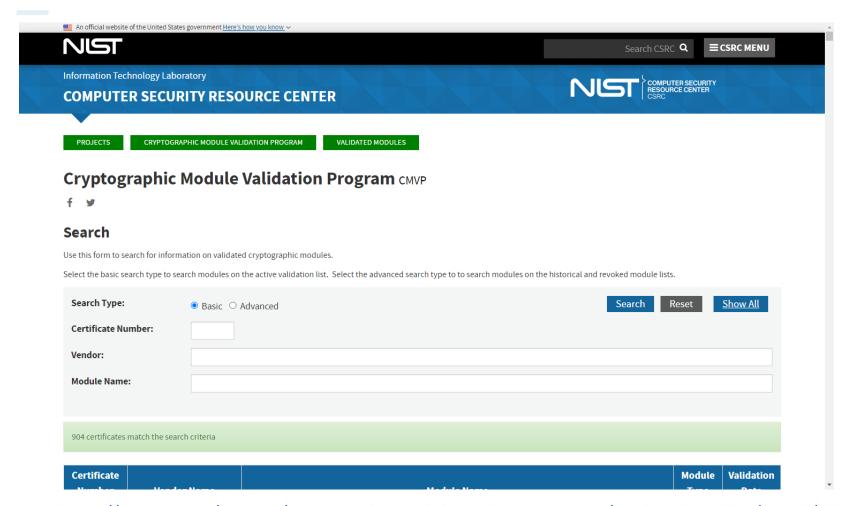
- Meet with an InfoDefense CMMC Compliance Expert
- View InfoDefense Webinar Transcript and Q&A



Kevin Wheeler
Founder & Managing Director
(972) 992-3100 Ext. 1101
kevin.wheeler@infodefense.com

# **Supplemental Slides**

#### **Search FIPS-validated Modules**



https://csrc.nist.gov/projects/cryptographic-module-validation-program/validated-modules/search/all

#### **Web Resources**

NIST SP 800-171 Rev. 2

https://csrc.nist.gov/publications/detail/sp/800-171/rev-2/final

**NIST SP 800-171A** 

https://csrc.nist.gov/publications/detail/sp/800-171/rev-2/final

**FIPS Validated Modules** 

https://csrc.nist.gov/projects/cryptographic-module-validation-program/validated-modules/search/all

InfoDefense NIST SP 800-171 Self-Assessment Tool

https://www.infodefense.com/nist-sp-800-171-self-assessment-tool/

DFARS 252.204-7012

https://www.acquisition.gov/dfars/252.204-7012-safeguarding-covered-defense-information-and-cyber-incident-reporting.