

Background Cyber compliance is a disorganized mess. Every vendor has their own questionnaire and requirements. Different federal, state, and local government agencies have their own requirements, too. FutureFeed

US DoD's 1st Solution (2017): NIST SP 800-171

- Introduced via DFARS 252.204-7012
- Required contractors handling
 "Controlled Unclassified Information"
 ("CUI") to do gap assessments and create
 POA&Ms to address the gaps.





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Super idea!

- Creates consistency across one of the government's largest agencies
- Serves as a testbed for other agencies
- Can be leveraged by SLED and commercial organizations
- Single compliance question



Lessons Learned

- Contractors don't know whether they are handling CUI.
- Contractors didn't remediate the gaps they identified, despite creating POA&Ms, because remediation isn't explicitly required.



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US DoD's 2nd Solution (2019):

CMMC and DFARS -7019 and -7020



- DFARS 252.204-7019 Contractors handling CUI must calculate a score based on their compliance with 800-171 ("low assurance") and submit to SPRS.
- DFARS 252.204-7020 DCMA's DIBCAC team can conduct spot-checks against contractors' systems and conduct medium and high assurance compliance audits.
- DFARS 252.204-7021 "CMMC" For those handling CUI, Authorized 3rd Parties must perform an assessment against 800-171 and issue certification.
- Contracts with -7021 in them will <u>require</u> essentially all contractors handling CUI to be certified.





Contractors' Response to DFARS -7019

- DoD estimates 80,000 contractors handle CUI
- Only roughly 20,000 have submitted scores to SPRS
- Of those submitting scores, 75% have given themselves perfect scores





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DIBCAC's Lessons Learned

- 75% of the companies giving themselves perfect scores are taking a rosy view of their compliance.
- Many miss several controls.





How About the Basics? • 800-171 has 110 controls and over 300 objectives. • FAR 52.204-21 only has 15, and they are the kind of things that everyone should do.



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CMMC 2.0 Level 1

 All contractors handling information created or received under a government contract (i.e., "Federal Contract Information" or "FCI") must selfassess and attest that they are meeting all of the requirements in FAR 52.204-21 (a.k.a. CMMC 2.0 Level 1)





Frequent Internal Roadblocks

- Overly confident contractor employees/ service providers
- Programs built without a foundation
- Failure to identify the requirements
- Misunderstanding the requirements
- Lack of evidence
- One and done mentality

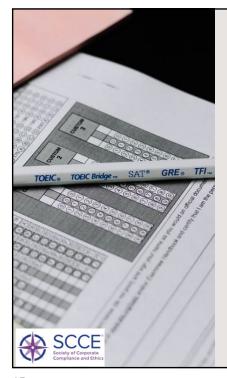


Employee Overconfidence

- Bring in a 3rd Party
- Penetration testers are a great start
- Also need to review:
 - Policies, procedures, etc.
 - System configurations
 - Evidence







Don't Make Stuff Up: Select an industry standard and build your program to that standard

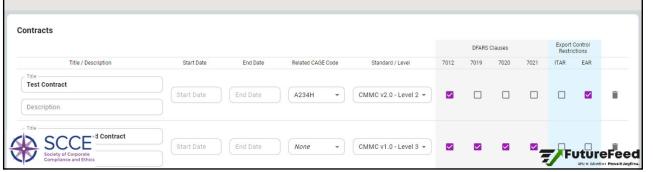
- **Center for Internet Security Controls**
 - ~150 requirements
 - Good for most orgs
 - Widely adopted, but not well known
- FAR 52.204-21
 - 15 requirements
 - US Government demands this from all contractors
- NIST SP 800-171
 - · Required of all government contractors handling CUI
 - Most companies have the same types of data as CUI (e.g., social security numbers, credit card info, client info, partner business plans, etc.)

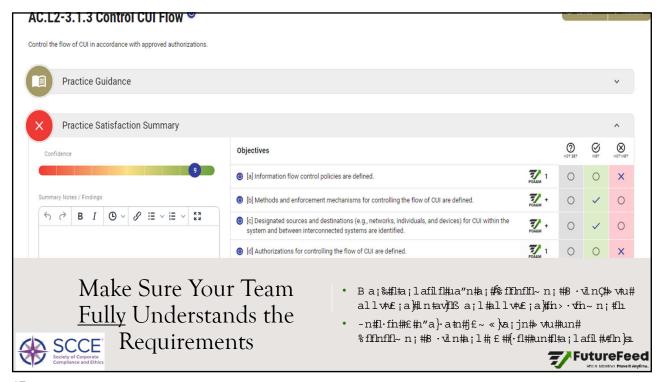


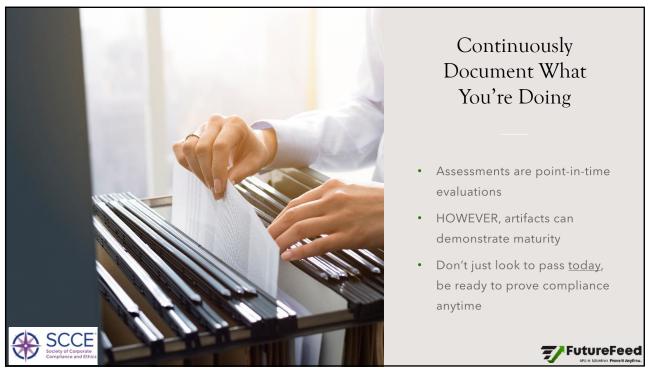
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Carefully Identify and Track the Requirements

- Use a contract manager
 - Even an Excel spreadsheet will work
- Track the requirements from each contract
 - Remember that not all requirements are technical (e.g., breach notification)
- Requirements may vary by enclave







Interview: Key Personnel

- Identify employee(s)
 accountable/responsible for each
 requirement.
- Update as the org. changes.
- Be ready: assessors can interview <u>anyone</u>.



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Examine: Identify Key Documents



- Define the program
 - Policies broad statement of intent
 - Procedures checklist-style instructions for implementing the policy (simple risks)
 - Plans structured approaches to collecting information for complex issues
- Demonstrate continuous compliance
 - Records of procedure completion
 - Completed worksheets
 - Records of review





Test

- List the software, system(s), and equipment that should be reviewed
- Define suggested review (based on documentation)







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Effective Communication with Stakeholders

- Establish consistency
- Use a single standard as your guide
 - Even if your org is subject to other standards
 - Can be a hybrid of other standards
- Stick to basic numeric scales (1-10, 1-50, 1-100)

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Cybersecurity Assessment/Audit Preparation Process

- 1. Conduct Inventory
 - 1. Hardware
 - 2. Software
 - 3. Cloud services
 - 4. Information
- 2. Use inventory information to define "systems".
- 3. Create Diagrams
 - 1. Network diagram (illustrates the overall architecture).
 - 2. Data flow diagram (illustrates how data moves to/from the systems).
 - 3. Role-based org chart with information and system authorization.

- 4. Determine whether the environment should be managed under a single System Security Plan ("SSP").
 - 1. Does the nature of the work performed, or the workflow/information handled, suggest treating the environment as discrete systems with their own SSPs?
- 5. Collect policies, procedures, plans, and other documents relevant to the assessment scope, if they exist.
- 6. Perform a gap analysis against the standard(s), but don't bother collecting evidence.

- 7. Create POA&Ms (gap remediation plans) for open actions.
- 8. Close the gaps.
- 9. Perform a validation analysis collect evidence that demonstrates your compliance with <u>all</u> the requirements defined in the assessment guide.



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Don't Forget Your Supply Chain

- Cybersecurity isn't just an internal issue.
- · Third parties can send you infected software, documents, equipment.
- Third parties can bring infected items into your environment.
- Your clients can also be problematic.



Consistency is the Key

- Consistent approach to client engagement and service delivery from service providers.
- Consistent focus on a standardized set of requirements.
- · Consistent use of terms.
- Consistent application of established practices.
- Consistent presentation of information.
- Consistent questions to those in your supply chain.







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About the Presenter

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