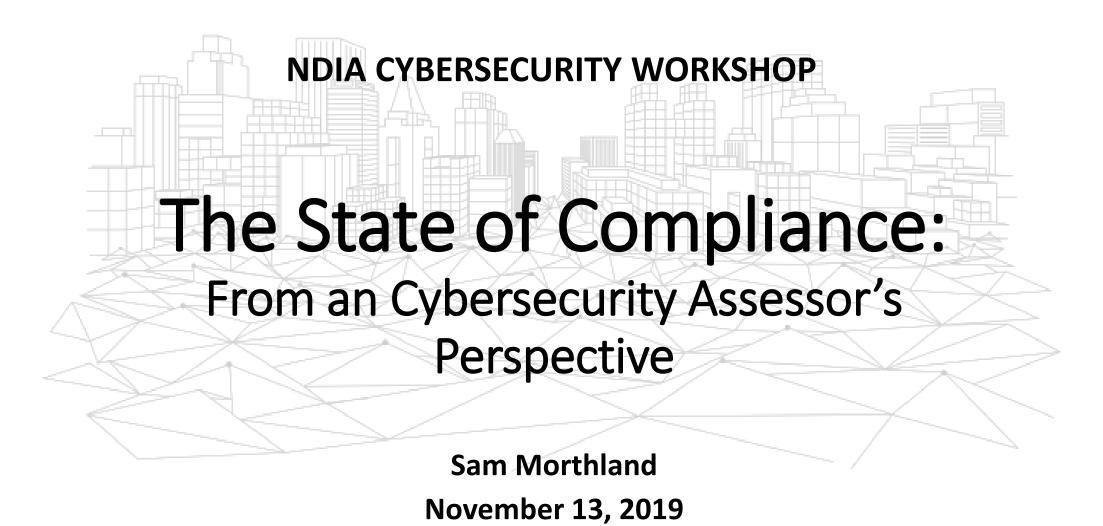
## SER\*BRYNN®



## Overview

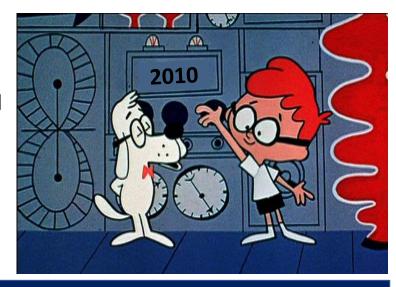
- Background
- Reality Check Report
- Changes in Guidance/Regulations
- Anticipating CMMC
- Recommendations for Businesses

### A bit about us...

- Veteran Owned Small Business, established in 2011, previous DOD cybersecurity and intelligence members
- Payment Card Industry (PCI) Qualified Security Assessor (QSA)
  - 1 of 147 US-based Assessors
- Federal Risk and Authorization Management Program (FedRAMP) accredited Third Party Assessment Organizations (3PAO)
  - Accredited by American Association for Laboratory Accreditation (A2LA) to ISO/IEC 17020:2012, Requirements for bodies performing inspection
  - 1 of 38 Federally approved FedRamp 3PAOs
- 8 years of serving the financial, commercial and Federal markets

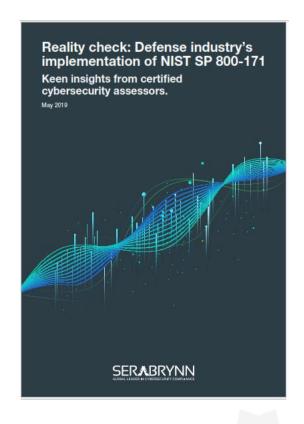
## Let's Jump into the Wayback Machine...

- CUI Security Executive Order 13556 Nov 2010
- DFARS 252.204-7012 (Final Rule Nov 2013)
  - Comply with subset of NIST 800-53
- OPM Data Breach Gov't wake up call Jun 2015
- DFARS 252.204-7012 (Interim Rule Dec 2015)
  - Initially 3 years to full compliance with NIST 800-171
- DFARS 252.204-7012 (Final Rule Oct 2016)
  - All DOD contractors to be compliant to NIST 800-171
    - As soon as practical NLT 31 Dec 2017
  - Self Attestation of compliance Required documents: SSP and POAM
- US Navy Sea Dragon Breach Jul 2018
- MITRE's "Deliver Uncompromised" Aug 2018
- Geurts Memo-Sep 2018
  - Imposing enhanced security controls on "critical" Navy programs



## Reality Check Report

- Early 2019 Lot of discussion of changes coming
  - Standards, Policies, Compliance Monitoring/Audits
  - "TO BE" objectives
- Didn't see where the "AS IS" information was provided
- Developed report based on incident responses and assessments over last 2 years
  - Provided an assessor's view of compliance in the DIB
- Provided a snapshot of compliance and identified areas for DIB companies to focus efforts and resources

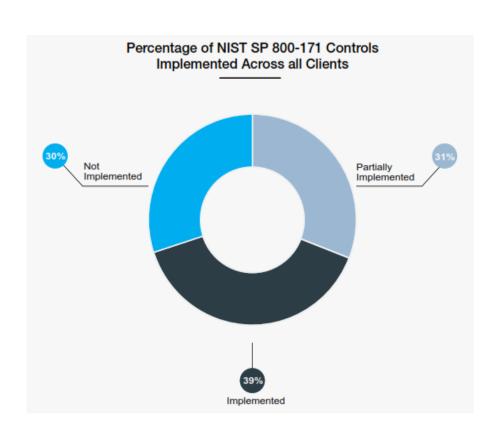


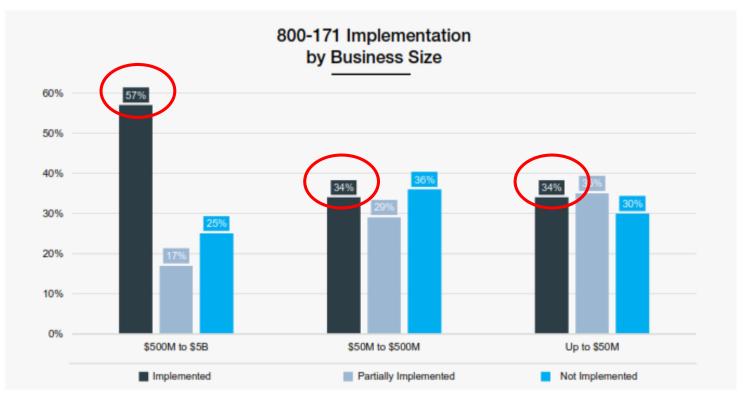
**NDIA CYBERSECURITY WORKSHOP 2019** 



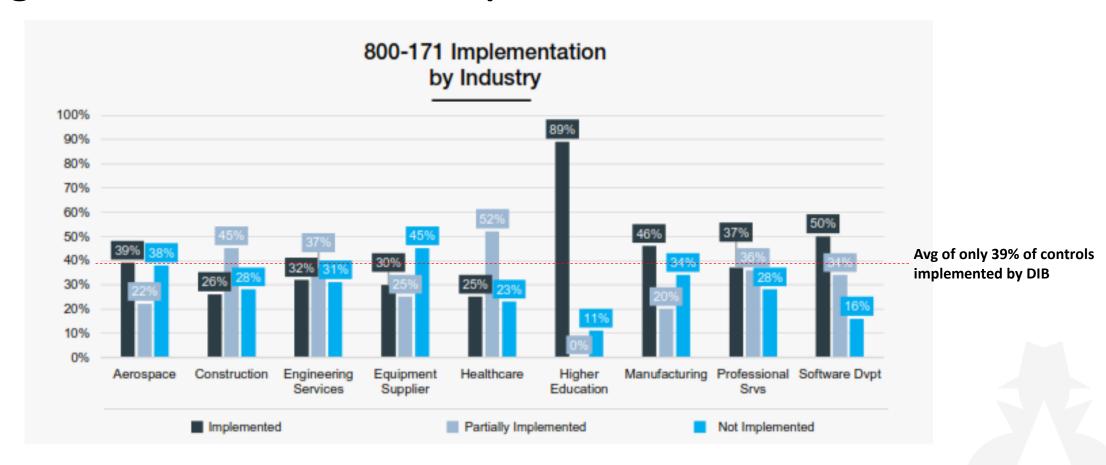
# NO COMPANIES WERE 100% COMPLIANT

## Large Business Leading, Small Business Lagging

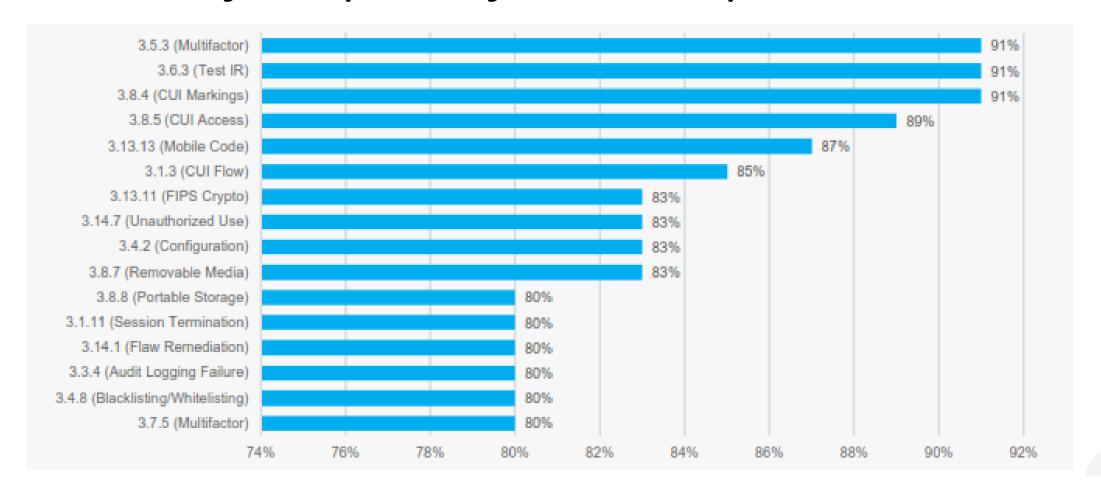




# Higher Ed beats DIB Implementation



## 80% of companies failed to implement 16 controls

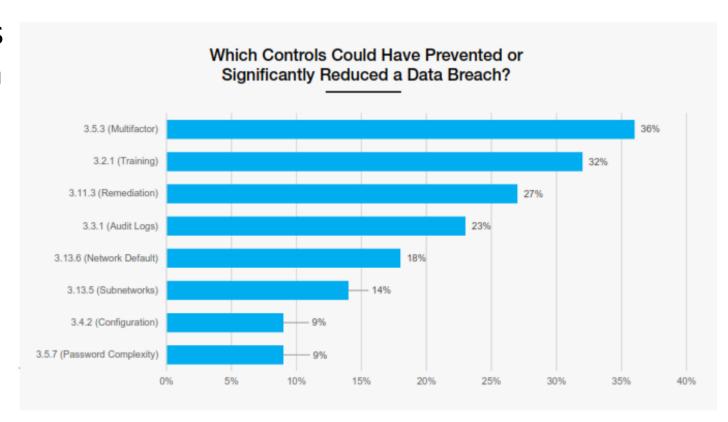


## Larger issues with implementing NIST SP 800-171

- Misunderstanding the controls
  - Many IT personnel are fully engaged in support of the availability of the network. Seeking to discern meanings from government policies tends to be low on their list of priorities
- Cultural issues
  - Security is not seen as a profit driver significant additional costs
  - Security requires change changing people's access levels
- Cloud Services
  - Enable centralized storage of documents in a secure environment BUT minimally secure regarding outside access, requires additional controls
  - Many cloud services in use are not FedRAMP Moderate baseline compliant

## Incident Response Findings

- In most cases, 800-171 controls would have prevented a breach or significantly reduced the impact
- In particular,
  - Lack of MFA (3.5.3)
  - Untrained users (3.2.1)
  - Poor patch management (3.11.3)
  - Lack of Audit Logs (3.3.1)



# Findings Similar to Jul 2019 DOD IG Study

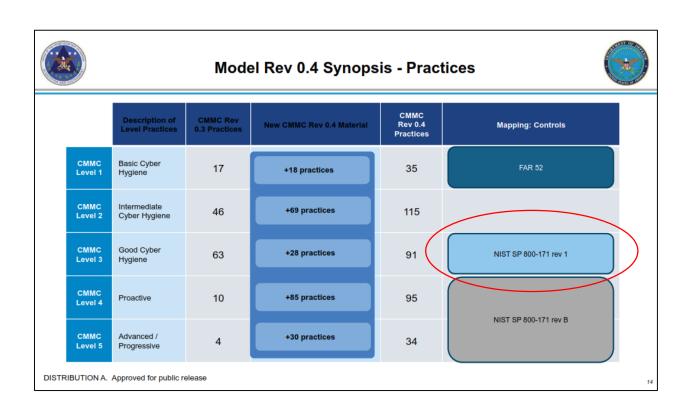
Sera-Brynn Reality Check	DOD IG Audit of Protection of DoD CUI on Contractor-Owned Networks and Systems
<ul> <li>Lack of MFA (3.5.3)</li> <li>Untrained users (3.2.1)</li> <li>Poor patch management (3.11.3)</li> <li>Lack of Audit Logs (3.3.1)</li> </ul>	<ul> <li>Contractors did not always mitigate the vulnerabilities on their networks and systems (3.11.3 Patches, 3.14.5 Scans)</li> <li>Multifactor authentication was not consistently used (3.5.3)</li> <li>Password lengths were susceptible to password attacks (3.5.7 Pwd Complexity)</li> <li>CUI on removable media was not protected (3.8.6)</li> </ul>

## Recent Changes

- Jul 2019 Defense Contract Management Agency (DCMA) assessing contractor compliance with DFARS Clause 252.204-7012 and NIST SP 800-171 as part of review of contractor purchase systems
  - Reviewing procedures to assess compliance of their Tier 1 Level Suppliers
- Sep 2019 Navy Marine Corps Acquisition Regulation Supplement (NMCARS) changes to enforce DFARS Clause 252.204-7012 compliance
  - KOs consider the right to reduce or suspend progress payments for contractor noncompliance
  - Reinforces, that "A contractor MUST make their SSP available to the contracting officer within 30 days of contract award and be ready to host the contracting officer for a review of the SSP at the contractor's facility."
    - Instance of subcontractor "let go" by prime on a recompete bid because no SSP or POAM

## CMMC Anticipation

- Companies looking for clear guidance
  - Not sure what to do
  - Attending Listening Tour, Seminars/Speaking
  - Realize Gov't is "building the plane inflight"
- Some companies waiting until CMMC is final to do anything
  - Not aware of FAR 52 or DFARS 252.204-7012
- Some companies unaware of need for compliance
  - "We don't have any CUI...whatever that is"
  - Disconnect from Privacy Act and other PII protection regulations



## Recommendations for Businesses

- Dust off SSP and complete actions in POAMs to comply with 800-171
  - Best preparation for CMMC in Oct 2020
- Budget for cybersecurity
  - Labor, Vulnerability Scans, Pen Tests, internal/external audits
- Ensure cybersecurity is a team effort Admin, Intel, Ops, and IT
  - Put your Cybersecurity Support POC on speed dial
- Run your Incident Response Plan w/Key Players desktop exercise
- Treat Cybersecurity like you do ISO monthly metric reviews, documentation reviews, internal audits



"An ounce of prevention is worth a pound of cure."

Benjamin Franklin

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