

Integrated Cyber Defense for the US Federal Government

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CONSIDER: CHALLENGE / RESPONSE

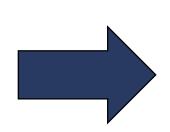


SHIELD CLUB SWORD ARMOR HIGH WALLS TREBUCHET TANKS GUNS HIGH GROUND AIR STRIKES SATELLITE COMM **RADAR**

WHAT ABOUT NOW?



SPACE
AIR
WATER
GROUND

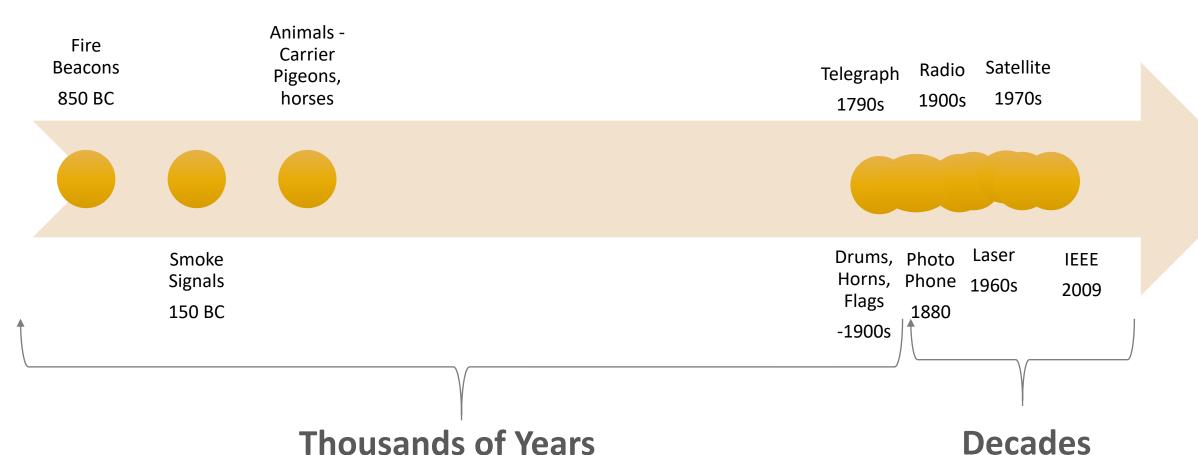


COORDINATED
COMMAND &
CONTROL



Timeline of Military Communications







BUT... HOW ABOUT CYBER?

There are MILLIONS of Threats & Attack Vectors

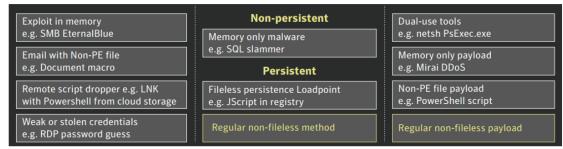


LIVING OFF THE LAND

State-Sponsored Attacks

TDK





https://www.symantec.com/content/dam/symantec/docs/security-center/white-papers/istr-living-off-the-land-and-fileless-attack-techniques-en.pdf

Organized Bad Actors?

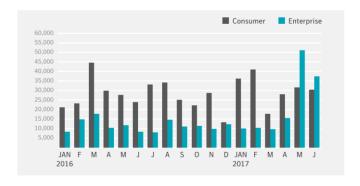


dragonfly, 2.0

Malware?

RANSOMWARE

Consumer vs enterprise ransomware infections, 2017 to date



AND HOW DO WE RESPOND? WITH DISPARATE TOOLS & VENDORS









Lumension[®]
IT Secured. Success Optimized.



























Ping



















Email Encryption

Endpoint Security

Endpoint Encryption

Data Audit

Tokens / MFA



IoT & Guest Access

Manage

Database Security

Sandboxing

Governance, Risk & Compliance

Web Proxy

URL / Web Filtering

Email Security

IPS /IDS

Endpoint Mgmt



VA/PT

ryption

Cloud CASB

Monitoring & **Managed Services**

Business Process Automation













Symantec.

































































Are these the Top DoD Cyber Challenges?



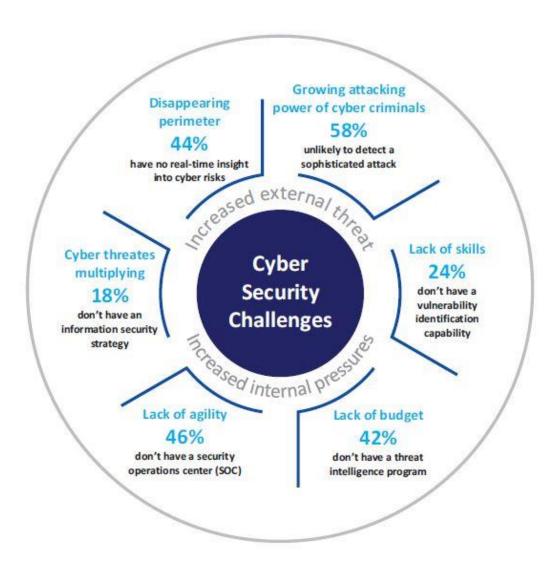
- Defend DoD Networks, Systems and Information
- Defend the United States and its Interests Against Cyber Attacks
- Provide Integrated Cyber Capabilities in Support of Military Operations
- Cyber Security as an Enabler





Our Challenges are Internal





- Lack of Standards/Integration/Automation
- Limited Human Capital/Cyber workforce
- Lack of good metrics efficacy/ROI
- Alignment to Cyber Plan/Architecture
- Align to risk mitigation plan
- Procurement LPTA
- Collaboration/communication
- Limited Resources/Budget

"Complexity is the Enemy of Security"

Howard Schmidt
Gartner Security & Risk Conference Key Note
June 2012

Are COTS Tools the Best Option?





Or Should Cyber Defenses be Purpose Built?





THE ANSWER TO ME IS CLEAR...

It is Time for a Cyber Security Manhattan Project



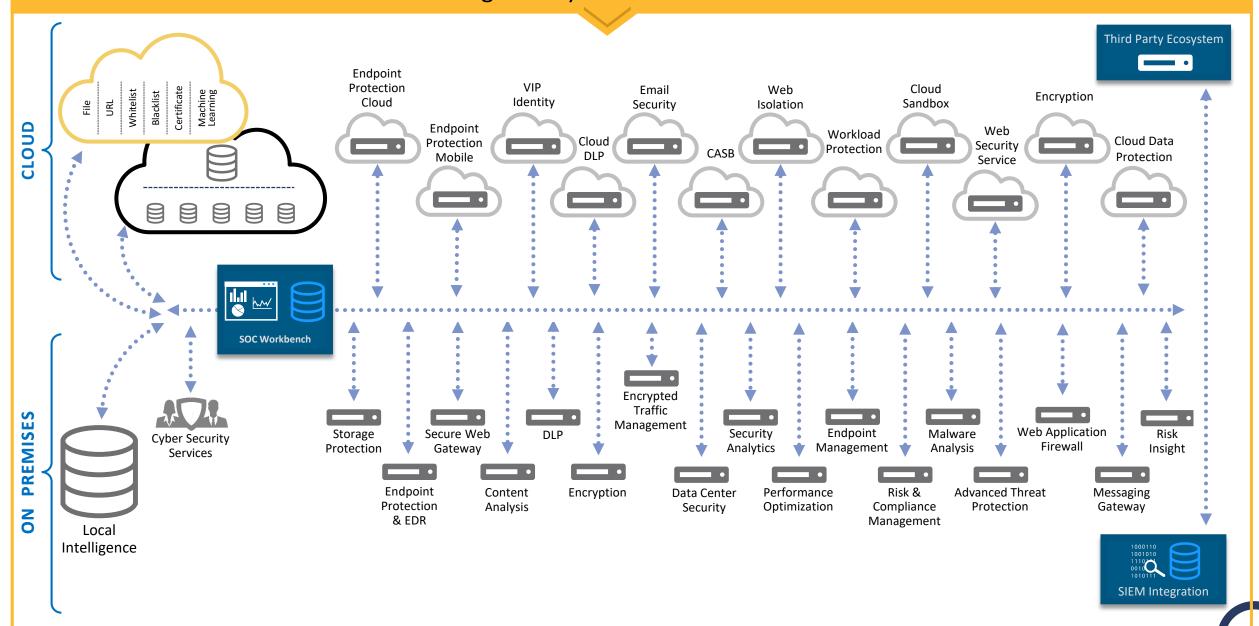


Time for the US to develop a Manhattan Project in Cybersecurity BY GREG CLARK, OPINION CONTRIBUTOR — 09/20/17 06:40 AM EDT

http://thehill.com/opinion/cybersecurity/351387-time-for-the-us-to-develop-a-manhattan-project-in-cybersecurity



Integrated Cyber Defense Platform



OUR ACTION – THE TAKEAWAYS



1. Plan – We Need an Architecture That Makes Sense!

- 2. Collaborate Force the Issue From the Top Down and Outside to the SI's, SPS, DIB and Manf/Vendors
- 3. Push for a "Manhattan Project" type effort the adversaries are already doing it!



Thank you!

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