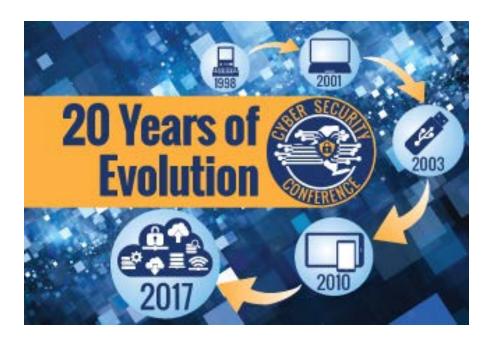




2017 New York State Cybersecurity Conference

Cybersecurity Policy Overview June 7, 2017



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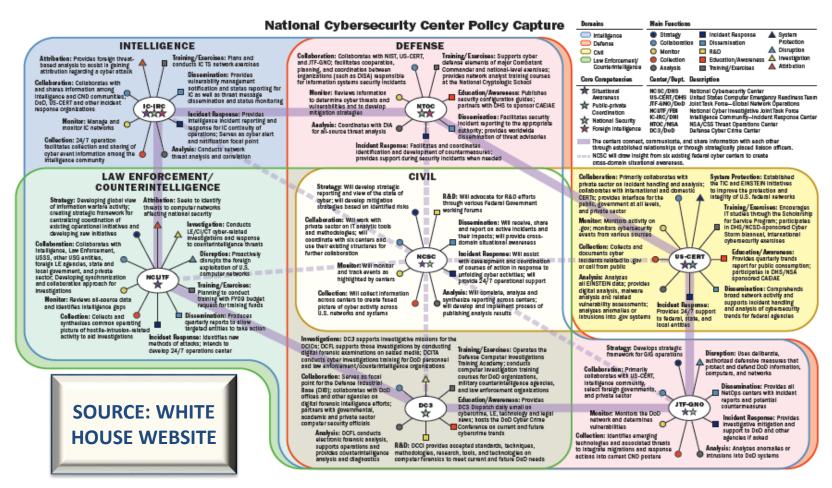
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Multi-layered Authority And Engagement

Cyber capabilities in the US are challenging to map in a comprehensive manner. The tendency to layer initiatives and agencies makes navigating the different components difficult. Rand Europe – September 2015



U.S. Federal Cybersecurity Operations Team National Roles and Responsibilities*

DOJ/FBI

- Investigate, attribute, disrupt and prosecute cyber crimes
- Lead domestic national security operations
- Conduct domestic collection, analysis, and dissemination of cyber threat intelligence
- Support the national protection, prevention, mitigation of, and recovery from cyber incidents
- Coordinate cyber threat investigations

DHS

- Coordinate the national protection, prevention, mitigation of, and recovery from cyber incidents
- Disseminate domestic cyber threat and vulnerability analysis
- Protect critical infrastructure
- Secure federal civilian systems
- Investigate cyber crimes under DHS's jurisdiction

DoD

- Defend the nation from attack
- Gather foreign cyber threat intelligence and determine attribution
- Secure national security and military systems
- Support the national protection, prevention, mitigation of, and recovery from cyber incidents
- Investigate cyber crimes under military iurisdiction

DOJ/FBI

LEAD FOR Investigation and Enforcement FBI, NSD, CRM, **USAO**

DHS

LEAD FOR Protection

NPPD, USSS, ICE

DoD

LEAD FOR National Defense

USCYBERCOM, NSA, DISA, DC3

O SITUATION - TO ATIONAL A SHARED SITUATIONAL AWARENESS ENABLING INTEGRATED OPERATIONAL ACTIONS

PROTECT

PROTECT

PREVENT

MITIGATE

RESPOND

RECOVER

Coordinate with Public, Private, and International Partners

 st Note: Nothing in this chart alters existing DOJ, DHS, and DoD roles, responsibilities, or authorities



Partnership Construct

The Public-Private Partnership Operates on Multiple Levels





Current Cyber Initiatives

COMMUNICATIONS SECTOR COORDINATING COUNCIL

WH	Congress	FCC	Commerce/NIST/N TIA	DHS	States	Other
 Executive Order Presidential Cybersecurity Commission (Published in December 2016) NSTAC Emerging Technology Strategic Vision (ETSV) Report 	 Oversight on Implementation of CISA (CISA – Passed 12/15) - Focus on implementation Potential DHS Re organization bill Ongoing inquiries on IoT Security Issues 	 FCC 5G NOI FCC Privacy FCC Tech Transitions NPRM FCC Spectrum Frontiers NPRM CSRIC V – WG 5 Information Sharing, WG 6 Supply Chain, WG 7 Workforce, WG 9 Wi-Fi Security, WG10 SS7 FCC TAC – IoT, SDN/NFV, Smart Phone Security Tracker FCC Policy Statement/ Company specific meetings CSRIC VI (about to commence) 	 IoT RFC Comments NIST RFI Framework 1.1 NTIA Internet Security Taskforce - Upgradeability OMB/Commerc e/EOP Baldridge Award Program NIST privacy engineering (Published in January) BIS Export Controls (Wassanaar Agreement) NIST Mobile Threat Catalog (NISTIR-8144) 	 National Cybersecurity Incident Response Plan (NCIRP) DHS IoT Principles DHS ISAO Standards Development DHS Automated Indicator Sharing Portal (AIS)/CISA Implementation DHS Organizational Structure Changes DHS CIDAR Initiative (Cyber Incident Database) DHS PCII RFC (Updating PCII office process) 	 NARUC State Regulatory Proceedings - Connecticut/ Illinois/ Missouri/ New Jersey etc. New York AG Proposal for Financial Institutions NAG/NCSL Cybersecurity Initiatives 	Cybersecurity Forum for Independent and Executive Branch Regulators FTC/CFPB PCI Auditing Review FTC Enforcement Actions NHTSA Connected Car/GAO Report FTC Ransomware Workshop 9/7



Key Policy Initiatives

Information Sharing

Internet of Things (IoT)

Risk Management Frameworks

Incident Response

Initiatives designed in response to a perceived and real need to create more formal and structured info sharing venues where actionable and timely cyber threat indicators are shared between private to private, private to government and government to private entities.

Initiatives designed in response to the exponential growth of Internetconnected devices and the relatively poor security capabilities that are part of the design phase. The recent Dyn attack put a spotlight on the risk that IoT poses to a broad set of infrastructure providers.

Most notably the NIST Cybersecurity Framework (CSF) that embodied a flexible and "no one-size-fits-all" construct for enterprises to manage risk in accordance with their unique risk profile and tolerance. The NIST CSF has been widely embraced by industry because it is viewed as an important alternative to counter-productive prescriptive regimes.

Mechanisms for individual enterprises to respond to a cyber crisis and for government and industry to coordinate efforts required to mitigate and recover from more consequential attacks



Key Initiatives and Venues

	White House	DoC	DHS	FTC	FCC	DoD	The Hill
Information Sharing	1	1	1		1	1	1
Internet of Things	1	1	1	1		1	1
Risk Management	1	1	1	1	1	1	1
Incident Response	1		1		1	1	1



Cyber Executive Order



Federal Networks

The President will hold heads of executive departments and agencies (agency heads) accountable for managing cybersecurity risk to their enterprises. In addition, because risk management decisions made by agency heads can affect the risk to the executive branch as a whole, and to national security, it is also the policy of the United States to manage cybersecurity risk as an executive branch enterprise.

Effective immediately, each agency head shall use The Framework for Improving Critical Infrastructure Cybersecurity (the Framework) developed by the National Institute of Standards and Technology, or any successor document, to manage the agency's cybersecurity risk.

establish a regular process for reassessing and, if appropriate, reissuing the determination, and addressing future, **recurring unmet budgetary needs** necessary to manage risk to the executive branch enterprise



Key Provisions (continued)



Critical Infrastructure

It is the policy of the executive branch to use its authorities and capabilities to support the cybersecurity risk management efforts of the owners and operators of the Nation's critical infrastructure

identify authorities and capabilities that agencies could employ to support the cybersecurity efforts of critical infrastructure entities identified pursuant to section 9 of Executive Order 13636 of February 12, 2013 (Improving Critical Infrastructure Cybersecurity), to be at greatest risk of attacks that could reasonably result in catastrophic regional or national effects on public health or safety, economic security, or national security (section 9 entities

engage section 9 entities and solicit input as appropriate to evaluate whether and how the authorities and capabilities...might be employed to support cybersecurity risk management efforts and any obstacles to doing so



Key Provisions (continued)



examine the sufficiency of existing Federal policies and practices to promote appropriate market transparency of cybersecurity risk management practices by critical infrastructure entities, with a focus on publicly traded critical infrastructure entities.

lead an open and transparent process to identify and promote action by appropriate stakeholders to improve the resilience of the internet and communications ecosystem and to encourage collaboration with the goal of dramatically reducing threats perpetrated by automated and distributed attacks (e.g., botnets).

assess:

- (i) the potential scope and duration of a prolonged power outage associated with a significant cyber incident
- (ii) **the readiness** of the United States to **manage the consequences** of such an incident; and
- (iii) any gaps or shortcomings in assets or capabilities required to mitigate the consequences of such an incident.



Key Reports/Resources

COMMISSION ON ENHANCING NATIONAL CYBERSECURITY

DECEMBER 1, 2016

REPORT ON SECURING AND GROWING THE DIGITAL ECONOMY

https://www.nist.gov/sites/default/files/documents/2016/12/02/cybersecurity-commission-report-final-post.pdf



CYBERSECURITY FRAMEWORK

https://www.nist.gov/cyberframework

Presidential Executive Order On Strengthening the Cyber-Security of Federal Networks and Critical Infrastructure



https://www.whitehouse.gov/the-press-office/2017/05/11/presidential-executive-order-strengthening-cybersecurity-federal