



NIST Cybersecurity and Privacy Update

Information Security Privacy Advisory Board

Chuck Romine

Director, Information Technology Laboratory

Current Priority Areas



Cryptography



Education, Training,
and Workforce
Development



Emerging
Technologies



Identity and Access
Management



Privacy



Risk Management
and Measurement



Trustworthy
Networks and
Platforms

Current Mandates

- National Defense Authorization Act
- Internet of Things Cybersecurity Improvement Act
- Executive Order (EO) 14028, Improving the Nation's Cybersecurity
- National Security Memorandum on Improving Cybersecurity of Cybersecurity of Critical Infrastructure Control Systems
- National Strategy to Secure 5G

Addressing Threats: Cybersecurity EO 14028

26633

Federal Register

Presidential Documents

Vol. 86, No. 93

Monday, May 17, 2021

Title 3— Executive Order 14028 of May 12, 2021

The President Improving the Nation's Cybersecurity

- Directs the Secretary of Commerce, through NIST, to consult with federal agencies, the private sector, academia, and other stakeholders and to identify or develop standards, tools, best practices, and other guidelines to enhance software supply chain security
- Resulting standards and guidelines will be used by other agencies to govern the federal government's procurement of software
- Directs NIST to initiate two labeling initiatives related to IoT and secure software development practices



Workshop on Enhancing Software Supply Chain Security
June 2021



Initial guidance and guidelines to enhance software supply chain security published
June-July 2021



Released draft revision of SP 800- 218, NIST Secure Software Development Framework



Released draft revision of 800-161, Cybersecurity Supply Chain Risk Management



Ransomware

Draft Cybersecurity Framework Profile for Ransomware Risk Management (NISTIR 8374)

Virtual workshop: Preventing and Recovering from Ransomware and Other Destructive Cyber Events (July 14)

Tips and Tactics for Preparing Your Organization For Ransomware Attacks



Internet of Things (IoT) Security

IoT cybersecurity risk management guidance for federal agencies (SP 800-213)

Labeling for consumer IoT products (EO)



Operational Technology Security

Tips and Tactics for Control System Cybersecurity

Revising NIST Guide to Industrial Control Systems Security (SP 800-82)

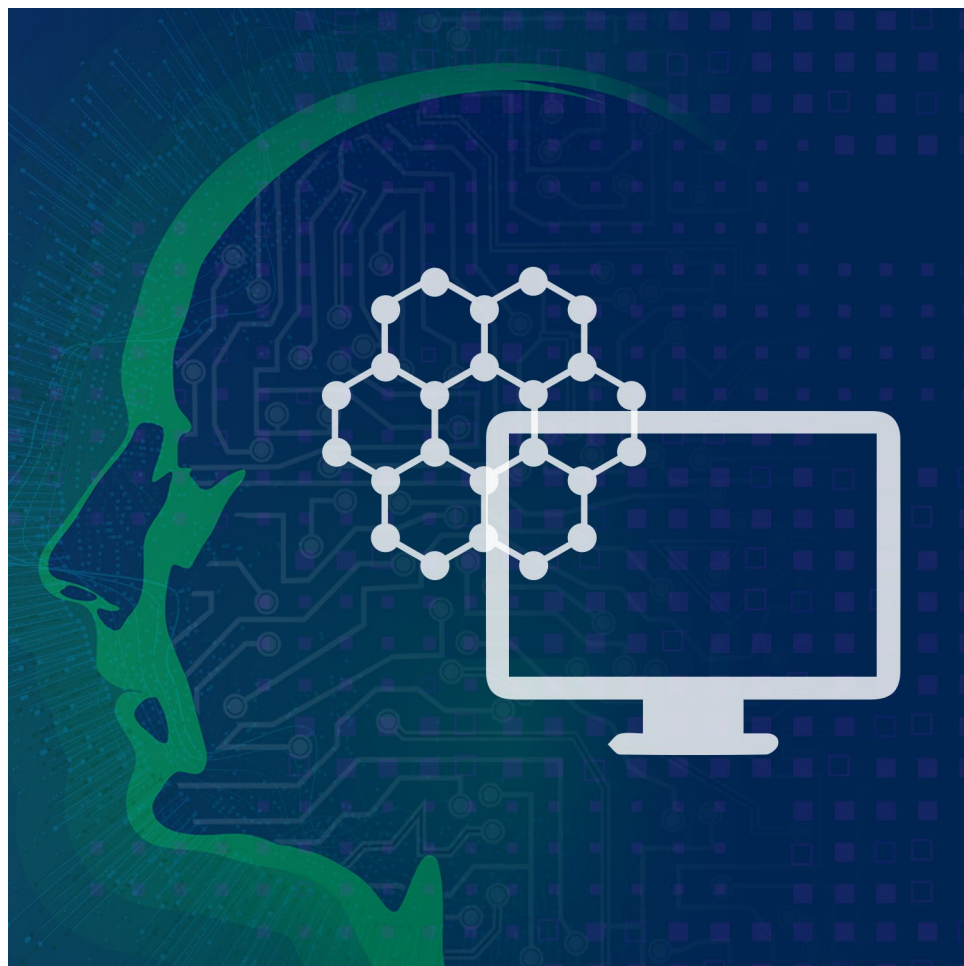


Looking Ahead

Request for Information for updating NIST Cybersecurity Framework and for supply chain initiative

Pending changes to encryption standards used by the U.S. government for post quantum in the next 2 to 5 years

AI Risk Management Framework



RFI closed on Sept 15, 2021.

www.nist.gov/itl/ai-risk-management-framework/comments-received-rfi-artificial-intelligence-risk-management



Workshop Oct 19-21, 2021.

www.nist.gov/news-events/news/2021/07/nist-requests-information-help-develop-ai-risk-management-framework

2022
***Celebrating 50 Years
of Cybersecurity Research at NIST***



DISCUSSION