NIST Cybersecurity Activities December 4, 2019





Cultivating Trust in IT and Metrology







From innovation to application



National Institute of Standards and Technology U.S. Department of Commerce





Continuing Resolution till Dec 20, 2019.



President's FY 2020 Budget Request. https://www.whitehouse.gov/omb/budget/

House Appropriation markup <u>https://appropriations.house.gov/sites/democrats.appropriations.house.gov/files/FY2020%20CJS%20Filed%20Bill%20-%20HR3055.pdf</u> Senate Committee on Appropriations <u>www.appropriations.senate.gov/news/fy2020-commerce-justice-science-appropriations-bill-approved-for-senate-consideration</u>

Voluntary Voting System Guidelines (VVSG 2.0)



Enhancing Cybersecurity and Privacy Risk Management





Privacy Framework





Preliminary Draft on September 9, 2019.



Public comment period ended on October 24, 2019.



Version 1.0 of the NIST Privacy Framework. Soon.

Cryptography



The existing foundations of both fundamental cryptography and cryptographic standards that established trust in our global information technology infrastructure were largely developed in the United States, primarily by NIST in partnership with the private sector.



Post-quantum Cryptography



Lightweight Cryptography



Automated Cryptographic Validation Protocol

Secure Al



Terminology and Taxonomy of attacks and defenses for Adversarial Machine Learning.





Extensive literature survey.





Draft for public comment ends on December 16, 2019.

Trustworthy Networks



Cultivating trust in network technologies by establishing the technical basis that improves the robustness and performance of the communication infrastructures.





Draft NIST SP 800-207: Zero Trust Architecture. Public comment period ended Nov 22.

DRAFT3 of USGv6 Revision 1 Specifications. Public comment period ended Nov 19.

5G Cybersecurity. Workshop on October 10, 2019.

Work with IETF on robustness issues in the Internet's core infrastructure.

Face recognition evaluation





1. Broad participation by industry

 Coverage by media including The Economist

3. Report on demographics

Hearings: House Comm. on4. Oversight and Gov. Reform and Comm. on Homeland Security

National Cybersecurity Center of Excellence



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See you at RSA 2020!

