

2021 Annual Report

Information Security and Privacy Advisory Board

ISPAB

National Institute of Standards and Technology

U.S. Department of Commerce

Preface

The Information Security and Privacy Advisory Board (ISPAB or Board) was established in January 1988, pursuant to the Computer Security Act of 1987 (Public Law 100-235; 15 U.S.C. § 278g-4, as amended). The ISPAB is a Federal Advisory Committee Act (FACA) committee, and it advises NIST, the Secretary of Homeland Security (DHS), and the Director of the Office of Management and Budget (OMB) on information security and privacy for federal government systems, including through review of proposed standards and guidelines developed by the National Institute of Standards and Technology (NIST). The Board's authority does not extend to private sector or federal systems which process classified information. NIST values the diverse and highly respected perspectives from the ISPAB members and the Board's sound advice on NIST and the Federal Government's strategic direction, programs, and operations.

This 2021 Annual Report covers the period from the beginning of October 2020 through September 2021 (Fiscal Year 2021).

ISPAB Members During this Annual Report

Steven Lipner, Chair

Executive Director
SAFECode
Term: 05/31/18 – 05/30/22

Ms. Giulia Fanti

Assistant Professor
Carnegie Mellon University
Term: 07/09/2021 – 07/08/2025

Ms. Jessica Fitzgerald-McKay

Co-Lead, Center for Cyber Security
Standards, National Security Agency
Term: 03/04/2019 – 03/03/2023

Mr. Marc Groman

Principal, Groman Consulting Group LLC
& Adjunct Professor, Georgetown Law
Term: 09/12/2017 – 09/11/2021

Mr. Douglas Maughan

Head of Office of Convergence Accelerators
National Science Foundation
Term: 08/07/2019 -08/06/2023

Ms. Katie Moussouris

CEO & Founder
Luta Security
Term: 06/04/2021 – 06/03/2025

Mr. Philip Venables

Chief Information Security Officer
Google Cloud
Term: 03/05/2020 – 03/04/2024

Dr. Brett Baker

Inspector General for the National Archives
U.S. National Archives & Records Administration
Term: 03/15/2018 – 03/14/2022

Akilesh Duvvur

Vice President Worldwide Cloud Platform
Products & Offering, IBM
Term: 01/31/2020 – 1/30/2024 (resigned)

Mr. Brian Gattoni

Chief Technology Officer, (CISA)
Department of Homeland Security
Term: 08/07/19 – 08/06/23

Ms. Arabella Hallawell

Executive Vice President
WhiteSource
Term: 01/26/2020 – 01/25/2024

Ms. Essye Miller

President
Executive Business Management
Term: 06/04/2021 – 06/03/2025

Ms. Janine Pedersen

Chief of Hardware Solutions Division
National Security Agency
Term: 07/09/2021 – 07/08/2025 (resigned)

ISPAB Secretariat

Mr. Matthew Scholl

Chief, Computer Security Division
National Institute of Standards & Technology

ISPAB Designated Federal Officer

Mr. Jeff Brewer

Program Manager & Analyst
National Institute of Standards & Technology

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ISPAB Focus for Fiscal Year 2021

Topic 1: Artificial Intelligence and Facial Recognition,

Topic 2: Cryptography and Quantum Information Systems,

Topic 3: NIST Publications and Guidance,

Topic 4: Internet of Things, Bug Bounties, and Vulnerability Testing,

Topic 5: Executive Order 14028, Improving the Nation’s Cybersecurity.

ISPAB Meeting Information for Fiscal Year 2021

1) Information Security and Privacy Advisory Board (ISPAB) October 2020 Meeting

Date: October 14 – 15, 2020

Location: Virtual via Blue Jeans

Open to the public

Presentations and/or Briefings:

- DHS - DHS Binding Operational Directive 20-01: Develop and Publish a Vulnerability Disclosure Policy,
- GSA - Bug Bounties and Vulnerability Disclosure in the United States Government,
- Luta Security - Industry Bug Bounty Implementation Lessons,
- NITRD - Grand Challenges for Embedded Security Research in a Connected World – Computing Community Consortium (CCC) Visioning Workshop Report,
- NIST - Activity in 5G and Beyond Security,
- NIST - Cybersecurity and Privacy Updates,
- NIST - Information Technology Laboratory Overview and Updates,
- NIST - Internet of Thing (IoT) Security Baseline Capabilities,
- NIST - Quantum Computing; Current State and Cryptography,
- University of Florida - Hardware Security Issues and Overview.

More information such as the Federal Register Notice, full agenda, and related detailed Meeting Minutes can be found at ISPAB’s event page: <https://csrc.nist.gov/Events/2020/ispab-october-2020-meeting>

Recommendations from this Meeting

Recommendation to Increase Staffing to Meet NIST's Privacy Initiatives

ISPAB submitted a letter to NIST encouraging adding additional staffing to its Privacy Program to meet the growing demand for privacy guidance and engagement.

[Letter](#) to Dr. Walter Copan, Undersecretary of Commerce for Standards and Technology and Director, NIST.

2) Information Security and Privacy Advisory Board (ISPAB) March 2021 Meeting

Date: March 03 – 04, 2021

Location: Virtual via Blue Jeans

Open to the public

Presentations and/or Briefings:

- DHS - SolarWinds Forensic Brief,
- DHS & DOD - DHS and DOT efforts for PNT in EO 13905, Strengthening National Resilience through Responsible Use of Position Navigation and Timing Services,
- Linux Foundation - Open Source Software Security Study,
- NIST - AI and NDAA requirements; NSC AI Commission Report,
- NIST - Cybersecurity and Privacy Updates,
- NIST - Cybersecurity IOT Act of 2020 and NIST Efforts,
- NIST - Facial Recognition Testing, Accuracy and Bias,
- NIST - Information Technology Laboratory Overview and Updates,
- OUSD - DOD Cybersecurity Maturity Model Certification (CMMC),
- University of Maryland - IEEE Paper: It Lurks Within: A Look at the Unexpected Security Implications of Compliance Programs.

More information such as the Federal Register Notice, full agenda, and related detailed Meeting Minutes can be found at ISPAB's event page: <https://csrc.nist.gov/Events/2021/ispab-march-2021-meeting>

Recommendations from this Meeting

Recommendation for Further Security Training and Education by the National Initiative for Cybersecurity Education (NICE)

ISPAB submitted a letter to NIST encouraging NICE to work with education and training providers to ensure job-appropriate security education and training to align with the Workforce Framework for Cybersecurity (NICE Framework).

[Letter](#) to Dr. James Olthoff, Performing the Non-Exclusive Functions and Duties of the Undersecretary of Commerce for Standards and Technology and Director, NIST.

Recommendation Encouraging Government to Participate in the Open Source Security Foundation (OSSF)

ISPAB submitted a letter to NIST encouraging the Director to encourage government agencies and contractors that depend on Open Source Software (OSS) to join and participate in the Open Source Security Foundation (OSSF).

[Letter](#) to Dr. James Olthoff, Performing the Non-Exclusive Functions and Duties of the Undersecretary of Commerce for Standards and Technology and Director, NIST.

Recommendation on Secure Software Configurations

ISPAB submitted a letter to DHS, NIST, and OMB recommending that NIST and DHS develop technical approaches for products that are configurable to ensure they are secure and usable, as well as incentivization strategies to ensure secure configurations are supported by product developers and implemented by users.

[Letter](#) to the Honorable Alejandro Mayorkas, Secretary, Department of Homeland Security, Dr. James Olthoff, Performing the Non-Exclusive Functions and Duties of the Undersecretary of Commerce for Standards and Technology and Director, NIST, Ms. Shalanda D. Young, Acting Director, Office of Management and Budget.

3) Information Security and Privacy Advisory Board (ISPAB) June 2021 Meeting

Date: June 23 – 24, 2021

Location: Virtual via Blue Jeans

Open to the public

Presentations and/or Briefings:

- DHS - Logging Events and Retention. EO 14028 Section 8(b),
- NIST - Critical Software. EO 14028 Section 4(g),
- NIST - Cybersecurity and Privacy Update,
- NIST - Information Technology Laboratory Overview and Updates,
- NIST - Pilot Labeling Programs. EO 14028 Section 4(s),
- NIST - SDL and Software Testing Guidance. EO 14028 Section 4(r),
- NIST - Supply Chain Security. EO 14028 Section 4(e),
- NSC - National Security Council Executive Order (EO) 14028 Overview,
- NTIA - Software Bill of Materials. EO 14028 Section 4(f),

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- OMB - OMB EO 14028 Implementations,

More information such as the Federal Register Notice, full agenda, and related detailed Meeting Minutes can be found at ISPAB's event page: <https://csrc.nist.gov/Events/2021/ispab-june-meeting>

Recommendations from this Meeting

None

4) Information Security and Privacy Advisory Board (ISPAB) September 2021 Meeting

Date: September 28, 2021

Location: Virtual via WebEx

Open to the public

Presentations and/or Briefings:

- NIST - Information Technology Laboratory Overview and Updates,
- DHS & NIST - National Security Memo on Preliminary ICS Performance Goals,
- NIST - Executive Order 14028 UPDATE,
- OMB - OMB Zero Trust Architecture Strategy.

More information such as the Federal Register Notice, full agenda, and related detailed Meeting Minutes can be found at ISPAB's event page: <https://csrc.nist.gov/Events/2021/ispab-september-2021-meeting>

Recommendations from this Meeting

None

ISPAB Charter

The current ISPAB Charter was renewed in February 2020 and information can be found at ISPAB's event page: <https://csrc.nist.gov/projects/ispab>. The current charter expires February 26, 2022.

ISPAB Meeting Costs for Fiscal Year 2021

Category	Estimated Costs	Actual Costs
Payments to Non-Federal Members	\$0	\$0
Payments to Federal Members	\$13,000	\$14,899
Payments to Federal Staff	\$56,000	\$38,134
Payments to Consultants	\$0	\$0
Reimbursement for Travel: Non-Federal Members	\$10,000	\$0
Reimbursement for Travel: Federal Members	\$0	\$0
Reimbursement for Travel: Federal Staff	\$1,000	\$0
Reimbursement for Travel: Consultants	\$0	\$0
Other Costs	\$50,000	\$46,372
Federal Staff Support:	.50	.30
Total	\$130,000	\$99,405