

INFORMATION SECURITY AND PRIVACY ADVISORY BOARD

Established by the Computer Security Act of 1987
[Amended by the Federal Information Security Management Act of 2002]

FINAL (6/17/2016)

MEETING AGENDA

June 15, 16, and 17, 2016

U. S. Access Board

1331 F Street N.W. Suite 800, Washington, DC, 20004, (202) 898-4000

*Please note: Speakers/times are subject to change without notice.

| Wednesday, June 15, 2016 | | | |
|--------------------------|---|------------|---|
| 8:30 A.M. | – | 8:45 A.M. | Welcome and Remarks Chris Boyer, Chair, ISPAB Assistant Vice President, Global Public Policy, AT&T |
| 8:45 A.M. | – | 9:45 A.M. | Presentation on Secure Engineering and Cybersecurity Resilience 1 (Presentation provided) Dr. Ron Ross, Fellow, NIST |
| 9:45 A.M. | – | 10:00 A.M. | B-R-E-A-K |
| 10:00 A.M. | – | 11:00 A.M. | Updates from Office of Management and Budget (OMB) Trevor Rudolph, Chief, Cyber and National Security Unit, Office of the Federal CIO, Office of Management and Budget, The White House |
| 11:00 A.M. | – | 12:00 P.M. | Executive Order – Establishment of the Federal Privacy Council 2 Marc Groman, J.D., Senior Advisor for Privacy, The White House |
| 12:00 P.M. | – | 1:00 P.M. | L-U-N-C-H |

1 DRAFT NIST SP 800-184 Guide for Cybersecurity Event Recovery http://csrc.nist.gov/publications/drafts/800-184/sp800_184_draft.pdf

2 <https://www.whitehouse.gov/the-press-office/2016/02/09/executive-order-commission-enhancing-national-cybersecurity> Federal Privacy Council Holds Inaugural Meeting

<https://www.whitehouse.gov/blog/2016/03/12/federal-privacy-council-holds-inaugural-meeting-0>

OMB Circular No. A-108 http://itlaw.wikia.com/wiki/OMB_Circular_No._A-108

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| Wednesday, June 15, 2016 | | | |
|---------------------------------|---|-----------|--|
| 1:00 P.M. | – | 2:00 P.M. | <p><i>Commission on Enhancing National Cybersecurity</i> ^{3 4}</p> <p>Kiersten Todt, Executive Director, Commission on Enhancing National Cybersecurity Kevin Stine, Chief, Applied Cybersecurity Division ITL, NIST</p> |
| 2:00 P.M. | – | 3:00 P.M. | <p><i>Cybersecurity Information Sharing Act (CISA) Implementation</i> ^{5 6}</p> <p>Jocelyn Aqua, Senior Component Official for Privacy/Counsel for Law and Policy, National Security Division, U.S. Department of Justice Leonard Bailey, Senior Counsel, U.S. Department of Justice Matt Shabat, J.D., Strategist and Performance Manager, Office of Cybersecurity and Communications, U.S. Department of Homeland Security</p> |
| 3:00 P.M. | – | 3:15 P.M. | <i>B-R-E-A-K</i> |
| 3:15 P.M. | – | 4:15 P.M. | <p><i>Updates on NIST Post-Quantum Cryptography Standardization Plan</i> ^{7 8} (<u>presentation provided</u>)</p> <p>Lily Chen, Ph.D., Acting Group Manager, Computer Security Division, ITL, NIST Dustin Moody, Ph.D., Computer Scientist, Computer Security Division, ITL, NIST</p> |
| 4:15 P.M. | – | 4:30 P.M. | <i>Board Review</i> |
| | | 4:30 P.M. | <i>Meeting Recessed</i> |

³ NIST Cybersecurity Commission <http://www.nist.gov/cybercommission/commission-meetings.cfm>

⁴ Meeting Minutes, April 14, 2016 http://www.nist.gov/cybercommission/upload/Meeting_Minutes_April_14.pdf

⁵ <https://www.federalregister.gov/articles/2016/06/15/2016-13742/cybersecurity-information-sharing-act-of-2015-final-guidance-documents-notice-of-availability>

⁶ Privacy and Civil Liberties Interim Guidelines https://www.us-cert.gov/sites/default/files/ais_files/Privacy_and_Civil_Liberties_Guidelines_%28Sec%20105%28b%29%29.pdf

⁷ https://www.bbvaopenmind.com/en/quantum-computing/?utm_source=facebook&utm_medium=techreview&utm_campaign=MITcompany&utm_content=QuantumComputing

⁸ <http://nvlpubs.nist.gov/nistpubs/ir/2016/NIST.IR.8105.pdf>

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| Thursday, June 16, 2016 | | | |
|--------------------------------|---|------------|---|
| 8:30 A.M. | – | 9:30 A.M. | <p><i>Blockchain Protocol and the Emerging Ecosystem</i> 9 10</p> <p>Dr. Ed Felten, Deputy U.S. Chief Technology Officer, Office of Science and Technology Policy, The White House (Presentation provided)</p> <p>Travis Hall, Ph.D., Telecommunications Policy Analyst, Office of Policy Analysis and Development, Telecommunications and Information Administration, U.S. Department of Commerce</p> <p>Andrew Regenscheid, Computer Scientist, Computer Security Division, ITL, NIST</p> |
| 9:30 A.M. | – | 9:45 A.M. | <i>B-R-E-A-K</i> |
| 9:45 A.M. | – | 11:00 A.M. | <p><i>NIST and Software Assurance</i></p> <p><i>Presentation on A Secure Toolchain Competition</i> 11 (Presentation provided)</p> <p>M. Lee Badger, Group Manager, Computer Security Division, ITL, NIST</p> <p><i>Presentation on Foundations of Software Assurance</i> 12 (Presentation provided)</p> <p>Paul E. Black, Ph.D. Computer Scientist, Software Quality Group, Software and Systems Division, ITL, NIST</p> <p><i>Presentation on Combinatorial Methods in Software Testing</i> 13 14 (Presentation provided)</p> <p>Rick Kuhn, Computer Scientist, Computer Security Division, ITL, NIST</p> |
| 11:00 A.M. | – | 12:00 P.M. | <p><i>High Performance Computing Security</i> (Presentation provided)</p> <p>M. Lee Badger, Group Manager, Computer Security Division, ITL, NIST</p> <p>Tim Polk, Assistant Director, Cybersecurity, National Security & International Affairs Division, Office of Science and Technology Policy</p> |
| 12:00 P.M. | – | 1:00 P.M. | <i>L-U-N-C-H</i> |

9 <http://www.cio.com/article/3055847/security/what-is-blockchain-and-how-does-it-work.html>

10 https://fcw.com/articles/2016/06/16/blockchain-nist-noble.aspx?s=fcwdaily_170616

11 http://csrc.nist.gov/news_events/cif_2015/research/day1_research_1100-1150.pdf

12 <https://samate.nist.gov/SARD/> <https://samate.nist.gov/BF/>

13 Combinatorial testing, which derives from the field of Design of Experiments, has attracted attention as a means of providing strong assurance at reduced cost. Combinatorial testing takes advantage of the interaction rule, which is based on analysis of thousands of software failures: most failures are induced by single factor faults or by the interaction of two factors, with progressively fewer failures induced by interactions between three or more factors. Thus when faults are triggered by a combination of t or fewer parameters, testing all t-way combinations of parameter values can be considered pseudo-exhaustive, and can provide a high rate of fault detection. The talk explains the rationale, method, and tools available for combinatorial testing.

14 http://csrc.nist.gov/publications/nistbul/itlbul2016_05.pdf

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| Thursday, June 16, 2016 | | | |
|--------------------------------|---|-----------|---|
| 1:00 P.M. | – | 1:30 P.M. | <i>Legislative Updates Relating to Security and Privacy</i> Jessica Wilkerson, Professional Staff Member, U.S. House Committee on Energy and Commerce |
| 1:30 P.M. | – | 1:45 P.M. | <i>B-R-E-A-K</i> |
| 1:45 P.M. | – | 2:30 P.M. | <i>Updates on Executive Order Cybersecurity Framework</i> Matthew Barrett, Program Manager, Cybersecurity Framework, NIST |
| 2:30 P.M. | – | 3:15 P.M. | <i>NIST Updates</i> Matt Scholl, Chief, Computer Security Division, ITL, NIST Kevin Stine, Chief, Applied Cybersecurity Division, ITL, NIST |
| 3:15 P.M. | – | 4:15 P.M. | <i>Board Review</i> |
| 4:15 P.M. | – | 4:45 P.M. | <i>Privacy and Civil Liberties Oversight Board (PCLOB) Updates</i> David Medine, Chairman, PCLOB |
| | | 4:45 P.M. | <i>Meeting Recessed</i> |

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| Friday, June 17, 2016 | | | |
|------------------------------|---|------------|---|
| 8:00 A.M. | – | 9:30 A.M. | <p><i>Internet of Things – Part I</i></p> <p>Nathaniel Beuse, Associate Administrator, Vehicle Safety Research, National Highway Transportation Safety Administration</p> <p>Travis Hall, Ph.D., Telecommunications Policy Analyst, Office of Policy Analysis and Development, Telecommunications and Information Administration, U.S. Department of Commerce</p> <p>Karen Jagielski, Senior Attorney, Division of Privacy and Identity Protection, Federal Trade Commission</p> <p>John Morris, Jr., Associate Administrator and Director of Internet Policy, Telecommunications and Information Administration, U.S. Department of Commerce 15 16</p> |
| 9:30 A.M. | – | 10:30 A.M. | <p><i>GAO Reports</i></p> <p>Michael Gilmore, Assistant Director, Information Security Issues, U.S. Government Accountability Office</p> <ul style="list-style-type: none"> • Information Security: DHS Needs to Enhance Capabilities, Improve Planning, and Support Greater Adoption of Its National Cybersecurity Protection System 17 • Critical Infrastructure Protection: Sector-Specific Agencies Need to Better Measure Cybersecurity Progress 18 • Federal Information Security: Agencies Need to Correct Weaknesses and Fully Implement Security Programs 19 <p><i>The FBI’s Use of Facial Recognition Technology</i> 20</p> <p>Diana Maurer, Director, Justice and Law Enforcement Issues, GAO</p> <p>David Plocher, Attorney, GAO</p> |
| 10:30 A.M. | – | 10:45 A.M. | <p><i>Public Participation / B-R-E-A-K</i></p> |

15 https://www.ntia.doc.gov/files/ntia/publications/fr_rfc_iot_04062016.pdf; <https://www.ntia.doc.gov/federal-register-notice/2016/rfc-potential-roles-government-fostering-advancement-internet-of-things>; <https://www.ntia.doc.gov/press-release/2016/us-department-commerce-seeks-comment-potential-policy-issues-related-internet-thi>

16 <https://www.ntia.doc.gov/federal-register-notice/2016/comments-potential-roles-government-fostering-advancement-internet-of-things>

17 <http://www.gao.gov/products/GAO-16-294>

18 <http://www.gao.gov/products/GAO-16-79>

19 <http://www.gao.gov/products/GAO-15-714>

20 GAO-16-267 Face Recognition Technology: FBI should better ensure privacy and accuracy <http://www.gao.gov/products/GAO-16-267>

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| 10:45 A.M. | – | 11:45 A.M. | <i>Internet of Things – Part II</i> Joseph L. Hall, Ph.D., Chief Technologist, Center for Democracy & Technology Angelos Stavrous, Ph.D., Professor, Computer Science Department, Volgenau School of Engineering, George Mason University (<u>presentation provided</u>) Jeffrey Voas, Computer Scientist, Computer Security Division, ITL, NIST (<u>presentation provided</u>) |
| 11:45 A.M. | – | 12:15 P.M. | <i>Board – Wrap-up</i> |
| | | 12:30 P.M. | <i>Adjournment</i> |

Future meetings – October 26, 27, 28, 2016