

National Institute of Standards and Technology Standards in Trade Workshop with India on Information and Communication Technologies

September 15-19, 2014

NIST, Gaithersburg, Maryland
Administration Building 101
Portrait Room¹

Final Agenda

Monday, September 15, 2014	
Opening Session	
8:00 am to 9:00 am	Registration
8:00 am to 9:00 am	Continental Breakfast Sponsored by: Cisco
Moderator	Dr. Ajit Jillavenkatesa Senior Standards Policy Advisor Standards and Program Coordination Offices, NIST
9:00 am to 9:30 am	Welcome and Opening Remarks Dr. Charles Romine Director, Information Technology Laboratory (ITL) National Institute of Standards and Technology (NIST) Shri Arun Sachdeva Senior Director, Industrial Policy - Hardware (IPHW) Department of Electronics and Information Technology (DeitY)
9:30 am to 10:00 am	Keynote Address US-India Collaboration in Information and Communication Technologies: Shared Challenges, Mutual Benefits Mr. Dean Garfield President & CEO, Information Technology Industry Council (ITI)

¹ See below for locations of September 19 meetings/lab tours

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10:00 am to 10:30 am	<p>Overview of USG and NIST A brief summary on how the U.S. Government is organized and NIST's role as a Federal agency, including NIST's role in the U.S. standards system and in the public-private partnership in standards development.</p> <p>Mr. Gordon Gillerman Acting Director, Standards Coordination Office and Chief, Standards Services, NIST</p> <p>Overview of GOI A brief review of the structure of the Indian Government and the various agencies and supporting organizations with roles and responsibilities in information communication technologies, as well as India's standards system and standards development.</p> <p>Shri Arun Sachdeva Senior Director, Industrial Policy - Hardware (IPHW) Department of Electronics and Information Technology (DeitY)</p>
10:30 am to 11:00 am	<p>Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)</p>
11:00 am to 11:30 am	<p>Introductions of Participants</p>
11:30 am to 12:30 pm	<p>Global ICT Standardization Standards are the foundation of today's global information economy, enabling production efficiency, interoperability, technology diffusion as well as enhancing competition and driving down costs for consumers. Panelists will discuss the importance of the use of international standards and participation in international standards, as well as the consequences of overly prescriptive, unique or redundant requirements.</p> <p>Ms. Barbara Fraser Director, Chief Technology and Architecture Office Cisco</p> <p>Shri Debdas Goswami Head, Electronics & IT Department Bureau of Indian Standards (BIS)</p> <p>Dr. Asok Chatterjee Executive Director of Standardization Telecommunications Standards Development Society, India (TSDSI)</p>
12:30 pm to 1:30 pm	<p>Lunch</p>

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	<p>Sponsored by: Telecommunications Standards Development Society, India (TSDSI)</p>
Cybersecurity	
1:30 pm to 3:00 pm	<p>Overview of Cybersecurity in the U.S. A presentation on current U.S. Administration positions including 1) Cyberspace Policy Review 2) International Strategy for Cyberspace, and 3) Executive Order 13636 "Improving Critical Infrastructure Cybersecurity," with a focus on standards, trade, and innovation including elements of cloud computing and trusted identity.</p> <p>Ms. Donna Dodson Acting Associate Director and Chief Cybersecurity Advisor ITL, NIST</p> <p>Ms. Cheri McGuire Vice President, Global Government Affairs & Cybersecurity Policy, Symantec</p> <p>Overview of Cybersecurity in India Indian Administration policies, priorities and concerns, including elements of cloud computing and national identity.</p> <p>Shri G. Narendra Nath Deputy Director General, Security Department of Telecommunications (DoT)</p> <p>Shri Vinayak Godse Director, Data Protection Data Security Council of India (DSCI)</p>
3:00 pm to 3:30 pm	<p>Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)</p>
3:30 pm to 5:00 pm	<p>The Importance of International Cybersecurity Standards International cybersecurity standards provide a basis for planning and deployment of sound security solutions and build trust among those creating and using those solutions throughout the globe. These standards provide a common language to communicate security requirements and ways of implementing them that are common and accepted. Discussion to cover examples of national priority and international efforts including common criteria.</p> <p>Mr. Matthew Scholl</p>

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	<p>Acting Chief Computer Security Division and Deputy Chief Cybersecurity Advisor Computer Security Division, ITL, NIST</p> <p>Ms. Marie Royce Vice President Public Affairs Alcatel Lucent</p> <p>Mr. Rao Vasireddy Senior Director Bell Labs Security Group</p> <p>Dr. YLP Rao Deputy Director General Unique Identification Authority of India (UIDAI)</p> <p>Shri R.R. Mittar Deputy Director General, Telecommunication Engineering Center (TEC) Department of Telecommunications (DoT)</p> <p>Dr. Asok Chatterjee Executive Director of Standardization Telecommunications Standards Development Society, India (TSDSI)</p>
5:00 pm to 5:30 pm	<p>The Unified Information Security Framework: A Collaborative Approach to Developing Security Standards and Guidelines for the Defense, Intelligence, and Civilian Agencies of the Federal Government and How NIST Publications Serve the Private Sector</p> <p>Dr. Ronald Ross Computer Scientist, NIST Fellow Computer Security Division, ITL, NIST</p>
5:30 pm	Adjourn
Tuesday, September 16, 2014	
Topics Related to Cybersecurity	
8:00 am to 9:00 am	Registration
8:00 am to 9:00 am	Continental Breakfast Sponsored by: Intel
Moderator	Ms. Danielle Kriz

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Director, Global Cybersecurity Policy Information Technology Industry Council (ITI)	
9:00 am to 10:00 am	<p>Conformity Assessment of Information Systems and IT Products, Strengthening Resilience, Security, Integrity and Usability Conformity assessment procedures are a means of providing assurance that the products and services have the required characteristics and/or perform in a specified manner. This session will discuss the benefits, challenges and trade-offs surrounding the various approaches to conformity assessment.</p> <p>Smt. Mitali Chatterjee Scientist-G Standardisation Testing and Quality Certification (STQC) Directorate (E) Department of Electronics and Information Technology (DeitY)</p> <p>Dr. Sarbari Gupta President & CEO Electrosoft</p>
Public-Private Partnerships and Implementation of Risk-Based Approaches	
10:00 am to 10:30 am	<p>Public-Private Partnerships: What Works and What Doesn't Discussion on smart grid, cloud computing, Executive Order 13636 Cybersecurity Framework by NIST or possibly Presidential Policy Directive 21 and the Critical Infrastructure Partnership Advisory Council – DHS's main critical infrastructure model for public-private partnerships.</p> <p>Ms. Angela McKay Director, Cybersecurity Policy and Strategy, Global Security Strategy and Diplomacy (GSSD) Team, Microsoft</p> <p>Shri Rahul Jain Principal Consultant Data Security Council of India (DSCI)</p>
10:30 am to 11:00 am	<p>Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)</p>
11:00 am to 11:30 am	Public-Private Partnerships: What Works and What Doesn't (cont)
11:30 am to 12:00 pm	<p>Mobile Device Security Discuss the ongoing work in this area.</p> <p>Mr. Andrew Regenscheid Computer Scientist and Mathematician Computer Security Division, ITL, NIST</p>

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	<p>Shri R.R. Mittar Deputy Director General, Telecommunication Engineering Center (TEC) Department of Telecommunications (DoT)</p>
12:00 pm to 12:30 pm	<p>Cyber security aspects of outsourcing, e-Governance, m-Commerce and financial inclusion The Government of India provides various subsidies and financial initiatives under different schemes and programs. In order that such subsidies reach the right beneficiary in a time bound manner, DIRECT BANK TRANSFER (DBT) has been envisaged through e-authentication.</p> <p>Smt. Amutha Arunachalam Assistant Director General Unique Identification Authority of India (UIDAI)</p>
12:30 pm to 1:30 pm	<p>Lunch Sponsored by: U.S.-India Business Council (USIBC)</p>
Moderator	<p>Mr. Jon Boyens Senior Advisor for Information Security and Program Lead, ICT Supply Chain Risk Management Computer Security Division, ITL, NIST</p>
1:30 pm to 2:30 pm	<p>Supply Chain Risk Management Presentations will include ongoing efforts and regulatory and non-regulatory approaches, as well as India's telecommunications framework and use of regulations, standards and best practices for security testing/certifying the integrity of communication networks.</p> <p>Mr. Andras Robert Szakal Vice President, Chief Technology Officer IBM U.S. Federal IMT Member, Open Group Board of Directors</p> <p>Mr. Steve Griffith Industry Director National Electrical Manufacturers Association (NEMA)</p> <p>Shri U.K. Nandwani Scientist-G Standardisation Testing and Quality Certification (STQC) Directorate, HQ</p>
2:30 pm to 3:00 pm	<p>Cybersecurity in Smart Grid</p>

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	<p>Discuss smart grid security and broader U.S. engagement in the development of Cybersecurity standards and guidelines for smart grid. This includes installations, distribution centers, smart meters rollout, cybersecurity of meters, and customer security.</p> <p>Dr. Claire Vishik Trust & Security Technology Policy Director Intel</p> <p>Ms. Nadya Bartol Vice President of Industry Affairs and Cybersecurity Strategist Utilities Telecom Council</p>
3:00 pm to 3:30 pm	<p>Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)</p>
3:30 pm to 4:00 pm	<p>Cybersecurity in Smart Grid (<i>cont</i>)</p>
4:00 pm to 5:00 pm	<p>Telecom Equipment Testing and Security Certification Topics for this discussion include details of security testing of various telecom equipment and standards adopted; process followed for the security certification of IT and telecom equipment deployed in telecom networks; regulatory framework for induction of IT and telecom elements in telecom network; and standards and best practices for security testing of telecom network elements/certifying the integrity of the telecom networks followed.</p> <p>Shri A.K. Mittal Deputy Director General, Telecom Testing and Security Certification (TTSC) Department of Telecommunications (DoT)</p> <p>Mr. Robert H. Mayer USTelecom Association Vice President – Industry and State Affairs</p>
5:00 pm to 5:25 pm	<p>Q&A</p>
5:25 pm to 5:30 pm	<p>Group Photo Location TBA</p>
5:30 pm	<p>Adjourn</p>
6:30 pm to 8:30 pm	<p>Reception Copper Canyon Grill 100 Boardwalk Place Gaithersburg, MD 20878</p>

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	Sponsored by: Information Technology Industry Council (ITI) and Telecommunications Industry Association (TIA)
Wednesday, September 17, 2014	
Topics Related to Cybersecurity (continued)	
8:00 am to 9:00 am	Registration
8:00 am to 9:00 am	Continental Breakfast Sponsored by: Intel
Moderator	Brian Scarpelli Director, Government Affairs Telecommunications Industry Association (TIA)
9:00 am to 10:30 am	<p>Cybersecurity Tools, Technologies and Techniques</p> <p>Security Automation Discuss the ongoing work in this area.</p> <p>Mr. David Waltermire Security Automation Architect Computer Security Division, ITL, NIST</p> <p>Cryptographic Standards Discuss the ongoing work in this area.</p> <p>Dr. Lily Chen Acting Group Leader and Mathematician Computer Security Division, ITL, NIST</p> <p>Shri Rudra Murthy Chief Information Security Officer Unique Identification Authority of India (UIDAI) Managed Service Provider (MSP)</p>
10:30 am to 11:00 am	Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)
Cloud Computing	
11:00 am to 12:30 pm	Cybersecurity Aspects of Cloud Computing Mr. Anil Karmel

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	<p>President and CEO, C2 Labs Co-Chair, NIST Cloud Security Working Group</p> <p>Overview of Cloud Computing in the US What is the driver for cloud computing?</p> <p>Mr. Mark Estberg Senior Director, Information Security Risk & Compliance Management Global Foundation Services Division Microsoft</p> <p>Overview of Cloud Computing in India What is the driver for cloud computing?</p> <p>Shri Rahul Jain Principal Consultant Data Security Council of India (DSCI)</p> <p>Industry Perspectives on Cloud Computing in the U.S. and Around the World</p> <p>Mr. Ken Salaets Director, Global Policy Information Technology Industry Council</p>
12:30 pm to 1:30 pm	<p>Lunch Sponsored by: U.S.-India Business Council (USIBC)</p>
Moderator	<p>Mr. Michael Hogan Standards Liaison ITL, NIST</p>
1:30 pm to 2:00 pm	<p>Standards and Intellectual Property Rights in the U.S.</p> <p>Mr. Henry Wixon Chief Counsel, NIST</p> <p>Dr. Ajit Jillavenkatesa, NIST</p>
2:00 pm to 3:00 pm	<p>US Government Cloud Computing Technology Roadmap What is a suitable cloud computing architecture (from NIST perspective)? Discuss NIST Special Publication 500-293, US Government Cloud Computing Technology Roadmap, Release 1.0 (Draft), Volume I High-Priority Requirements to Further USG Agency Cloud Computing Adoption</p>

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	<p>and NIST Special Publication 500-293, US Government Cloud Computing Technology Roadmap, Release 1.0 (Draft), Volume II Useful Information for Cloud Adopters</p> <p>Mr. Eric Simmon System Expert - NIST Cloud Computing Program ITL, NIST</p>
3:00 pm to 3:30 pm	<p>Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)</p>
<p>Topics Related to Cloud Computing</p>	
<p>e-Governance: Cloud Standards Related to Public Services</p>	
3:30 pm to 5:00 pm	<p>Indian Government Cloud Computing Technology Roadmap What is a suitable cloud computing architecture (from GOI perspective)?</p> <p>Standards Standards are a pre-requisite for seamless interoperability of services being offered under various e-Governance initiatives. They also promote a modular approach for upgrading/enhancing the quality and scope of such services.</p> <p>Shri G. Narendra Nath Deputy Director General, Security Department of Telecommunications (DOT)</p> <p>Architecture To harness the capabilities of a cloud architecture for seamless delivery of e-Services it is envisaged to create a discrete Cloud Computing environment following a set of common protocols, guidelines and standards.</p> <p>Shri Rudra Murthy Chief Information Security Officer Unique Identification Authority of India (UIDAI) Managed Service Provider (MSP)</p> <p>e-Governance and Cloud Standards in the U.S.</p> <p>Mr. Michael Hogan Standards Liaison ITL, NIST</p>

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5:00 pm to 5:30 pm	Q&A
5:30 pm	Adjourn
Thursday, September 18, 2014	
Trusted Identity/National Identity	
8:00 am to 9:00 am	Registration
8:00 am to 9:00 am	Continental Breakfast Sponsored by: Intel
Moderator	Dr. Ajit Jillavenkatesa Senior Standards Policy Advisor Standards and Program Coordination Offices, NIST
9:00 am to 10:30 am	<p>National Strategy for Trusted Identities in Cyberspace (NSTIC) – Improving Online Trust through Public-Private Partnerships Issued by President Obama in 2011, NSTIC is the U.S. government’s digital identity strategy. NSTIC calls for the creation of an “identity ecosystem,” led by the private sector, which allows all Americans to choose from a variety of different types of credentials for online transactions that are more secure, convenient and privacy-enhancing than the password-centric systems most people use today.</p> <p>Ms. Donna Dodson Acting Associate Director and Acting Chief Cybersecurity Advisor, ITL, NIST</p> <p>National Identity in India – A Government-Driven Model</p> <p>Smt. Amutha Arunachalam Assistant Director General Unique Identification Authority of India (UIDAI)</p>
10:30 am to 11:00 am	Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)
11:00 am to 11:30 am	<p>DeitY’s National e-Authentication Service A presentation on e-Pramaan, an authentication service that provides a simple, convenient and secure way for users to access government services via internet/mobile as well as for the government to assess the authenticity of the users. e-Pramaan builds up confidence and trust in online transactions and encourages the use of the e-services as a channel for service delivery.</p>

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	<p>Smt. Kavita Bhatia Scientist-E, e-Gov Department of Electronics and Information Technology (DeitY)</p>
11:30 am to 12:30 pm	<p>NIST Biometrics and Implementation of NIST Biometrics in India Many large-scale biometric deployments (such as UIDAI, US-VISIT, or EU-VIS) mandate measuring and reporting of quality scores. If a low quality value is predictive of recognition failure (primarily a false negative, but possibly a false positive too), then a new sample can be collected while the subject is still present. Therefore, quality analysis is most helpful when the measures reflect the performance sensitivities of one or more target biometric matchers. NIST addressed this problem in August 2004 when it issued the NIST Fingerprint Image Quality (NFIQ) algorithm. Since then NIST has been considering how quality measures should be evaluated, the definition and development of quality measures for other biometrics, and the wider use of such measures. In addition, NIST is active in the JCT1 SC37 standardization activities on biometric quality and sample conformance. This talk will dive into details about implementation plans, obstacles encountered, lessons learned, and intended impact of NIST biometric quality program.</p> <p>Ms. Elham Tabassi Project Lead, Biometric Quality, Standard and Evaluation Information Access Division, ITL, NIST</p> <p>India's Biometrics E-authentication which includes biometrics digital signature and mobile based authentication are being evaluated and implemented for various services being delivered under the National e-Governance Plan (NeGP).</p> <p>Dr. YLP Rao Deputy Director General Unique Identification Authority of India (UIDAI)</p> <p>Implementation of One Time Password/Digital Signature Certificate in India This session will cover the eco-system and alternatives possible for such authentication considering the diversity and demography of India.</p> <p>Shri Rudra Murthy Chief Information Security Officer Unique Identification Authority of India (UIDAI) Managed Service Provider (MSP)</p>
12:30 pm to 2:00 pm	Lunch Off-Site (bus service to/from NIST provided)

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	<p>India Palace Tandoor 19743 Frederick Rd Germantown, MD 20876</p> <p>Sponsored by: U.S.-India Business Council (USIBC)</p>
Looking Ahead	
2:00 pm to 2:30 pm	<p>Standards Cooperation Under the U.S.-India Commercial Dialogue This talk will highlight ongoing discussions of standards under the U.S.-India Commercial Dialogue with a view toward deepening our mutual understanding of the complex technical issues involved so that bilateral commerce can be facilitated and maximized.</p> <p>Ms. Valerie Dees Director, Office of South Asia U.S. Department of Commerce, International Trade Administration</p>
2:30 pm to 3:00 pm	<p>Industry Perspectives on National Initiatives Discussion to include U.S., India, China and others, challenges, common elements in standardization, and how the roles of government and industry contrast and complement each other.</p> <p>Shri Vinayak Godse Director, Data Protection Data Security Council of India (DSCI)</p> <p>Dr. Asok Chatterjee Executive Director of Standardization Telecommunications Standards Development Society, India (TSDSI)</p> <p>Mr. Jay Taylor Director of Global Standards, Codes and Environment Schneider Electric</p>
3:00 pm to 3:30 pm	<p>Refreshment Break Sponsored by: U.S.-India Business Council (USIBC)</p>
3:30 pm to 4:00 pm	<p>Industry Perspectives on National Initiatives (con't)</p>
4:00 pm to 5:00 pm	<p>Discussion - A big picture overview of topics, relationships, and how they connect. How will we continue to work together? What are the topics of greatest interest moving forward? This session will provide an open forum for discussion among participants about opportunities and issues identified during the workshop discussions. It is</p>

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	<p>hoped that the discussion will identify follow-up activities and specific collaborative opportunities that will build upon the understandings gleaned from the workshop.</p> <p>Moderator: Dr. Ajit Jillavenkatesa</p>
5:00 pm to 5:30 pm	<p>Closing Remarks</p> <p>Shri Arun Sachdeva Senior Director, Industrial Policy - Hardware (IPHW) Department of Electronics and Information Technology (DeitY)</p> <p>Mr. Matthew Scholl Acting Chief Computer Security Division and Deputy Chief Cybersecurity Advisor Computer Security Division, ITL, NIST</p>
5:30 pm	Adjourn

Friday, September 19, 2014	
Indian Delegation Meetings and Lab Tours	
8:00 am	<p>U.S. Department of Homeland Security (DHS) (phone conference)</p> <p>Office of Cybersecurity and Communications, DHS Web: http://www.dhs.gov/office-cybersecurity-and-communications</p> <p>Department of Telecommunications (DOT) Web: http://www.dot.gov.in/</p> <p>Telecommunications Engineering Centre, DOT Web: www.tec.gov.in/</p>
8:45 am to 10:30 am	<p>Federal Communications Commission (FCC) Laboratory Columbia, Maryland</p> <p>Office of Engineering Technology (OET), FCC Web: http://transition.fcc.gov/oet/</p> <p>Public Safety and Homeland Security Bureau, FCC Web: http://www.fcc.gov/public-safety-homeland-security-bureau</p>

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	<p>Visitors will learn about the Federal Communications Commission activities related to equipment authorization of telecom equipment (use of private-public partnerships), testing of telecom equipment and E-911 calls from mobile devices (location accuracy requirements).</p> <p>The Office of Engineering and Technology (OET) advises the Commission on technical and engineering matters and develops and administers Commission decisions regarding spectrum allocations. The Laboratory Division grants equipment authorizations and performs technical research in support of Commission technical deliberations.</p> <p>The FCC's Public Safety & Homeland Security Bureau (PSHSB) is responsible for developing, recommending, and administering the agency's policies pertaining to public safety communications issues. These policies include 9-1-1 and E9-1-1; operability and interoperability of public safety communications; communications infrastructure protection and disaster response; and network security and reliability. PSHSB also serves as a clearinghouse for public safety communications information and emergency response issues.</p>
10:30 am to 12:30 pm	<p>Lab Tour - PCTEST Engineering Laboratory, Inc. Columbia, Maryland Web: http://www.pctestlab.com/</p> <p>PCTEST Engineering Laboratory Inc. is a world leader providing independent EMC/EMI and RF testing services laboratory for FCC and Industry Canada (IC). Additionally PCTEST is a Telecommunication Certification Body (TCB) accredited for certification under ISO/IEC Guide 65 by ANSI. PCTEST Lab is recognized as an ISO/IEC 17025 accredited laboratory by both U.S. NIST/NVLAP and A2LA.</p>
2:30 pm to 4:00 pm	<p>National Cybersecurity Center of Excellence (NCCoE) Rockville, Maryland Web: http://nccoe.nist.gov/</p> <p>Established in 2012 through a partnership among NIST, the State of Maryland and Montgomery County, the National Cybersecurity Center of Excellence (NCCoE) is dedicated to furthering innovation through the rapid identification, integration and adoption of practical, standards-based cybersecurity solutions. The NCCoE provides businesses with real-world cybersecurity solutions—based on commercially available technologies. The center brings together experts from industry, government and academia to demonstrate integrated cybersecurity that is cost-effective, repeatable and scalable. The Center is</p>

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	hosted by NIST and fosters collaboration with industry to identify and solve today's most pressing cybersecurity challenges.
4:15 pm to 5:00 pm	<p>NIST Biometrics Laboratory - Biometric Web Services Gaithersburg, MD Web: http://www.nist.gov/itl/biometrics/index.cfm/</p> <p>A world leader in the field of biometrics, NIST works with industry, government, and academia to develop the metrics, testing and evaluation methods, as well as development & validation of standards needed to advance biometric technologies. At this tour stop, visitors will learn about NIST-developed systems, software, and specifications that enable universal (i.e., platform-independent) methods for collecting multi-modal (fingerprints, face images, and iris images) biometrics via usability tested touch & gesture based devices (tablet computers).</p>