

NIST The Intersection of Cloud ^{and} Mobility Forum and Workshop

October 1-3, 2013 • National Institute of Standards and Technology

**REGISTER
HERE**

No Registration Fee!

The New Frontiers in IT and Measurement Science

Rapid advances in mobile cloud computing are bringing sweeping changes to the way mobile computing and communication services are delivered around the globe. More than an incremental change, mobile cloud computing is expected to radically alter users' working and life styles.

From Cloud & Mobility > To Cloud Mobility

Cloud provides ubiquitous, on-demand, elastic, self-configurable, cost effective computing. Mobile devices are accessible, convenient gadgets, with regional wireless communication services and limited data services that have limited computing and power resources.

Low-end mobile devices access diverse and scalable cloud computing resources and globally connected mobile enabled resources to receive unlimited mobile application services.

As part of its continuing cloud computing series, the National Institute of Standards and Technology (NIST) is hosting a new forum on Cloud and Mobility. Join fellow experts in the fields of cloud, mobility, and measurement for thought-provoking plenary talks, panel presentations, facilitated breakout discussion, poster sessions, and networking around these themes:

- Federal Perspectives on Cloud and Mobility
- The Vision for Cloud and Mobility
- Current State of Cloud and Mobility Intersections
- Intersections of Cloud and Mobility on the Horizon
- Bringing Mobility and Cloud Together
- Challenges and Lessons Learned
- Lessons Learned in Mobility
- Challenges for Cloud and Mobility, including
- Use Cases, Technologies, Consumer Issues
- Domain- and Sector-Specific Perspectives
- Path Forward to a Federated Mobile Cloud

Proactive Participation

The workshop agenda follows. Registrants are asked at registration to select their preferences for the following focused breakout sessions.

Tuesday, October 1

FUTURE DIRECTIONS

1. Federated Community Cloud Roadmap
2. Accessibility Cloud Roadmap
3. Future Cloud: Implications for Mobility
4. Future Mobility: Implications for the Cloud

Wednesday, October 2

CHALLENGES

- 2.1 Reliability Design Goals
- 2.2 Privacy and Security Issues
- 2.3 Cloud-Enhancing Mobility Applications
- 2.4 Ubiquitous Computing

Thursday, October 3

PATH FORWARD

- 3.1 Federated Mobile Cloud
- 3.2 Privacy and Security
- 3.3 Usability
- 3.4 Ubiquitous Computing



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Preliminary Agenda

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Tuesday, October 1 **THEME: Future Vision**

8:00 am Registration and Networking

9:00 am Introduction to Forum and Workshop

9:05 am Welcome & Opening Remarks
Willie E. May, Associate Director for Laboratory Programs, NIST

9:10 am Keynote: Federal Perspectives on Cloud and Mobility
Steven L. VanRoekel, Federal Chief Information Officer, Office of Management and Budget

9:30 am Keynote: The Vision for Cloud and Mobility
Pamela J. Wise-Martinez, Senior Strategic Enterprise Architect, Office of the Director of National Intelligence

10:00 am Moderated Panel: Current State of Cloud and Mobility Intersections
Moderator: Keith Trippie, Executive Director for Enterprise System Development Office, Department of Homeland Security
Panelists:
➤ Mark Ryland, Chief Solutions Architect, Amazon
➤ Joseph Portale, Chief Technologist~Mobility, Lockheed Martin
➤ Bryan Coapstick, Director, Mobile Innovation, Hewlett-Packard
➤ Alessandro Acquisti, Associate Professor of Information Technology and Public Policy, Carnegie Mellon University

11:15 am Coffee Break

11:30 am Plenary Session: Progress on USG Cloud Computing Technology Roadmap Priority Action Plan Successes
Topics and Hosts:
➤ **Standards:** Mike Hogan / Annie Sokol, NIST
➤ **Security Reference Architecture:** Michaela Iorga, NIST
➤ **Service Level Agreements:** John Messina, NIST, and John Calhoon, Microsoft
➤ **Metrics:** Frederic de Vault, NIST, and Jacques Durand, Director of R&D, Fujitsu
➤ **SAJACC Update:** Alan Sill, Texas Tech University

12:45 pm Lunch, Poster Session, Informal Roundtable Conversations

2:00 pm Moderated Panel: Intersections of Cloud and Mobility on the Horizon ~ discussion of near and future applications and technologies
Moderator: Robert Anderson, Chief, Vision and Strategy Division, U.S. Marine Corps
Panelists:
➤ Dennis Quan, Vice President of SmartCloud, IBM
➤ Jim Davis, Vice Provost IT & Chief Academic Technology Officer, UCLA
➤ Hank Marquis, Practice Director, Cloud Solutions, Global Knowledge
➤ Dan Kent, CTO and Senior Director, Cisco Public Sector

3:00 pm Relocation Break

<http://www.nist.gov/itl/cloud/intersection-of-cloud-and-mobility.cfm>

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~ Preliminary Agenda ~

Tuesday, October 1 THEME: Future Vision (continued)

3:15 pm	Concurrent Breakout Sessions: Future Directions for Cloud and Mobility	
	Session	Co-Hosts
	1: Federated Community Cloud	Steve Diamond, EMC/IEEE, and John Messina, NIST
	2: Accessibility	Charlie Lakin, NIDRR/DoEd, and Bob Bohn, NIST
	3: The Future Cloud and Implications for Mobility	Tom Suder, MobileGov, and Frederic de Vault, NIST
	4: Future Mobility and Implications for the Cloud	Irena Bojanova, UMUC, and Andrew Regenscheid, NIST
4:40 pm	Relocation Break	
4:45 pm	Day 1 Closing Remarks	
	Chuck Romine, Director, Information Technology Laboratory, NIST	

Wednesday, October 2 THEME: Challenges For Cloud and Mobility

8:00 am	Registration and Networking	
9:00 am	Opening Remarks	
	Chuck Romine, NIST	
9:10 am	Reports on Day 1 Breakout Sessions	
9:30 am	Keynote: Bringing Mobility and Cloud Together ~ Key Challenges and Lessons Learned	
	Gunnar Hellekson, Chief Technology Strategist ~U.S. Public Sector, Red Hat	
10:00 am	Moderated Panel: Lessons Learned in Mobility	
	Moderator: Rob Palmer, Director, Information Assurance and Information System Security Manager, ESCO-OCIO, Department of Homeland Security	
	Panelists:	
	➤ Susie Adams, CTO, Microsoft Federal	
	➤ Winston Bumpus, Director of Standards Architecture, VMWare and President DMTF	
	➤ Scott McGrath, COO, OASIS	
	➤ Angelos Stavrou, Associate Professor, Computer Science Department, George Mason University	
11:15 am	Break	
11:30 am	Plenary Session 1: Challenges for Cloud and Mobility ~ Use Cases, Technologies, Consumer Issues	
	Technology Challenges (interoperability/portability/accessibility/mobile sensors/CPS)	
	➤ Gurvinder Ahluwalia, CTO Cloud Computing, IBM West US Region	
	Business/Economic Challenges	
	➤ Duncan Sparrell, Distinguished Member of Technical Staff, Chief Security Office, AT&T	
	Security Challenges	
	➤ Tom Karygiannis, Senior Researcher, Computer Security Division, NIST	
	Privacy Challenges	
	➤ Naomi Lefkowitz, Senior Privacy Policy Advisor, Information Technology Laboratory, NIST	
	Behavioral Challenges	
	➤ Laura Brandimarte, Post-Doctoral Fellow, Carnegie Mellon University	
12:45 pm	Lunch, Poster Session, Informal Conversations	

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Wednesday, October 2 **THEME: Challenges For Cloud and Mobility (continued)**

2:00 pm **Keynote**
Teri M. Takai, Department of Defense Chief Information Officer

2:30 pm **Plenary Session 2: Challenges for Cloud and Mobility ~ Domain- and Sector-specific Issues**
First Responders
 ➤ Ben T. Katsumi, President & CEO @ Information Economy Research Institute
Defense & Intelligence
 ➤ Dawn Meyerriecks, CIA
Financial/Banking/Business
 ➤ Fred Lima, Security Architect, VISA

3:30 pm **Relocation Break**

3:40 pm **Concurrent Breakout Sessions: Challenges at the Intersection of Cloud and Mobility**

Session	Co-hosts
2.1: Reliability Design Goals Research	Jean-Paul Smets, IWGCR, and Kevin Mills, NIST
2.2: Privacy and Security Issues	Fran Trentley, Akamai, and Ron Ross, NIST
2.3: Cloud-Enhancing Mobility Applications	Raheleh Dilmaghani, National University, and Nader Moayeri, NIST
2.4: Ubiquitous Computing	David Corman, NSF, and Eric Simmon, NIST

4:40 pm **Relocation Break**

4:45 pm **Day 2 Closing Remarks**
Jim St. Pierre, Deputy Director, Information Technology Laboratory, NIST

Thursday, October 3 **THEME: Path Forward**

8:00 am **Registration and Networking**

9:00 am **Opening Remarks**
Jim St. Pierre, NIST

9:10 am **Reports on Day 2 Breakout Sessions**

9:30 am **Keynote: Path Forward to a Federated Mobile Cloud**
Mario Gerla, Professor, Computer Science Department, UCLA

10:00 am **Coffee & Relocation**

10:15 am **Breakout Sessions – Path Forward: Working Together on Major Challenges**

Session	Co-hosts
3.1: Federated Mobile Cloud	Robert Brammer, Brammer Technology, and Bill Newhouse, NIST
3.2: Privacy and Security	Eric Hibbard, Hitachi, and Michaela Iorga, NIST
3.3: Usability	Karuna Joshi, UMBC, and Mary Theofanos, NIST
3.4: Ubiquitous Computing	William J. Miller, MaCT and Eswaran Subrahmanian, CMU

11:45 am **Relocation Break**

12:00 pm **Summary Comments on Path Forward Breakout Discussions**

12:20 pm **Next Steps/Adjourn**