NIST The Intersection of Cloud and Mobility Forum and Workshop

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

Register here

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. Selected sessions will be professionally facilitated, and the outcomes summarized in a workshop report, in which participants will be acknowledged as contributors.

Tuesday, October 1	Wednesday, October 2	Thursday, October 3
FUTURE DIRECTIONS	**CHALLENGES**	**PATH FORWARD**
1. Federated Community Cloud Roadmap	2.1 Reliability Design Goals	3.1 Federated Mobile Cloud
2. Accessibility Cloud Roadmap	2.2 Privacy and Security Issues	3.2 Privacy and Security
3. Future Cloud: Implications for Mobility	2.3 Cloud-Enhancing Mobility Applications	3.3 Accessibility
4. Future Mobility: Implications for the Cloud	2.4 Ubiquitous Computing	3.4 Ubiquitous Computing

The Intersection of Cloud and Mobility Forum and Workshop

Preliminary Agenda

October 1-3, 2013 ● National Institute of Standards and Technology ● Gaithersburg, MD

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

9:15 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, Enterprise Services U.S. Public Sector, Hewlett-Packard
➢ Allessandro 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:
➢ **Security Reference Architecture**: Michaela Iorga, NIST
➢ **Metrics**: Fred deVaulx, NIST, and Jacques Durand, Director of R&D, Fujitsu
➢ **Service Level Agreements**: John Messina, NIST, and John Calhoun, Microsoft
➢ **Standards:** Mike Hogan / Annie Sokol, NIST

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
➢ Monique J. Morrow, CTO Consulting Engineer, Cisco Systems *(invited)*
➢ Jim Davis, Associate Vice Chancellor IT & CIO, UCLA
➢ Shankar Sastry, Dean, College of Engineering, UC Berkeley *(invited)*

3:00 pm — **Relocation Break**

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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 – Approaches to the Cloud Roadmap Priority Action Plan	Steve Diamond, EMC/IEEE, and John Messina, NIST
2: Accessibility – Approaches to the Cloud Roadmap Priority Action Plan	Charlie Lakin, NIDRR/DoEd, and Bob Bohn, NIST
3: The Future Cloud and its Implications for Mobility	Tom Suder, MobileGov, and Fred deVaulx, NIST
4: The Future of Mobility and its 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: Michael Panico, Vice President, Stroz Friedberg *(invited)*
Panelists:
➢ Susie Adams, CTO, Microsoft Federal
➢ Mark Fox, DOD Sales Manager, Amazon
➢ Winston Bumpus, Director of Standards Architecture, VMWare and President DMTF
➢ Scott McGrath, COO, OASIS

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
Privacy & Security
➢ **Naomi Lefkowitz**, Senior Privacy Policy Advisor, Information Technology Laboratory, NIST
Security Challenges
➢ **Tom Karygiannis**, Senior Researcher, Computer Security Division, NIST
Behavioral Components: Human Interactions
➢ **Laura Brandimarte**, Post-Doctoral Fellow, Carnegie Mellon University

12:45 pm — **Lunch, Poster Session, Informal Conversations**

2:00 pm — **Keynote:**
Teri M. Takai, Acting Assistant Secretary of Defense for Networks and Information Integration and CIO, U.S. Department

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

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
➢ Priscilla Guthrie, CTO, CYBERCOM

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, VIFIB (France) Kevin Mills, NIST
2.2: Privacy and Security Issues	John Summers, VP, Security Products, Akamai Ron Ross, NIST
2.3: Cloud-Enhancing Mobility Applications	Raheleh Dilmaghani, IBM Nader Moayeri, NIST
2.4: Ubiquitous Computing	Eric Simmon, NIST David Corman, NSF

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, Northrup Grumman, and Bill Newhouse, NIST
3.2: Privacy and Security	Eric Hibbard, Hitachi, and Michaela Iorga, NIST
3.3: Accessibility	Karuna Joshi , UMBC, and Mary Theofanos, NIST
3.4: Ubiquitous Computing	Eswaran Subrahmanian, CMU, and William J. Miller, MaCT

11:45 am — **Relocation Break**

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

12:20 pm — **Next Steps/Adjourn**