

TUESDAY, JULY 19, 2005
WASHINGTON, D.C. AREA
ONE DAY WORKSHOP

IPv6 *ADVANCED MOBILITY*

WORKSHOP 2005

DEVELOPING AND DEPLOYING ADVANCED IPV6 MOBILE NETWORKS

OPEN DISCUSSION AND PROBLEM SOLVING

SERVICE PROVIDERS

DoD ♦ Joint Services ♦ NASA ♦ Homeland Security

FAA ♦ Mobile Network Deployers and Integrators

HOSTED BY



WELCOME!**DAVID GREEN**

CERDEC Site Manager, SRI International



"I WOULD LIKE TO INVITE ALL THOSE INVOLVED IN IPV6 ADVANCED MOBILITY NETWORK DEVELOPMENT AND DEPLOYMENT – FROM SERVICE PROVIDERS, DOD, HOMELAND SECURITY CONSUMERS AND OTHER ADOPTERS OF IPV6 ADVANCED MOBILITY NETWORKS.

I hope that this workshop will allow us to discuss the deployment model, protocols, and services for network and node mobility in crisis management networks to service DoD Joint task forces, Homeland Defense, first responders, FEMA, and other organizations who rapidly deploy networks into crisis situations. I believe that we can combine the next generation of network radios & satellite communications, IPv6, NEMO, MIPv6, MANET routing, local DNS caching, and other advanced network centric enterprise services to create highly capable, quickly deployable networks."

CARL WILLIAMS

Senior Consultant



"WHILE THE MAIN THRUST OF IPV6 IS TO GREATLY INCREASE ADDRESSING SPACE, IPV6 ALSO ENABLES A VERY IMPORTANT FEATURE – MOBILE IPV6 WHICH IS A MUCH BETTER PROTOCOL DESIGN FOR MOBILITY.

The deployment of Mobile IPv6 can begin today. To meet your needs for both short-term and long-term development strategies, this workshop will provide an in-depth, immediately useful instruction in the latest mobility techniques, effective tools, and best strategies for development and advanced mobility architectures based on IPv6. The workshop will survey the topic areas, then dive right into the specifics of what to do and how to do it. Topic presenters are well-known experts in their fields, selected for their ability to lead an open discussion for helping participants with their diverse deployment requirements."

REGISTRATION SITE:www.native6.com/mobility**CONTACT INFO:**Carl Williams, carlw@mcsr-labs.orgDave Green, david.green@sri.com**AREAS COVERED**

- Key features of the Mobile IPv6 (MIPv6) model and associated deployment issues
- Mobile IPv6 deployment how-to
- Network Mobility (NEMO)
- Multi-homed Mobile IPv6 node support
- Support for mobile task forces
- OSPFv3 extensions for IPv6 Ad Hoc routing
- IPv6 sensor networks over 802.15.4
- IPv6 security in advanced mobility deployments
- MIPv6 interactions with ad-hoc and mesh deployments
- SIP and Voice interaction with MIPv6
- MIPv6 SIP clients
- MIPv6 extension for advanced deployments
- Security analysis for air mobile and ground infrastructure
- Mobile networks scalability
- QoS in mobile network deployments
- HAIPE and MIPv6 interaction
- MIPv6 over IPv4 networks
- Automobile MIPv6 deployment experiences
- Discussion of real MIPv6 deployments that exist today

FINALLY, BUSINESS CASE PROPOSITION FOR MOBILE IPV6 AND IPV6 ADVANCED DEPLOYMENTS WILL BE DISCUSSED AND DEBATED

THIS WORKSHOP WILL FOCUS NOT ON MARKETING OR THE BASICS. INSTEAD, THE WORKSHOP WILL PROVIDE A FORUM FOR "HOW TO" DEPLOY VARIOUS PARADIGMS OF IPV6 MOBILITY BOTH IN THE SHORT AND LONG TERM.

Such deployments represent the core piece of next generation networks for many implementers listed above. This workshop will not simply be a series of presentations; instead, there will be many opportunities for sharing and open discussion points from those participants who will attend. You will be able to discuss your IPv6 mobility plans or questions with experts and others who are currently deploying these advanced networks and/or IPv6 mobility services – such as voice and/or SIP over Mobile IPv6. It is the goal of this workshop will meet the growing industry demand for practical up-to-date information on issues in IPv6 advanced Mobility architecture and deployments of a diverse set of mobility services.

LIVE DEMONSTRATIONS

Some key deployments in NASA and within the automobile industry will be also be covered. Demonstrations of Mobile IPv6 and IPv6 Network mobility will be provided by Cisco. In addition, IPv6 sensor networks using advanced ad-hoc network techniques will be demonstrated live by Home Invensys at the workshop.

THE IPV6 ADVANCED MOBILITY WORKSHOP IS BEING HOSTED BY SRI INTERNATIONAL AND NATIVE6, INC.

Like many others in the Internet community, DoD, the Joint Services, and Federal Agencies are interested in deploying IPv6 mobility as an enterprise service. As part of this workshop we would like to work together with various service providers, DoD engineers and contractors, NASA, Department of Homeland Security, FEMA, the FAA, equipment vendors, and anyone else who has an interest in IPv6 mobility to work through the issues of Mobile IP deployment.

SPEAKERS

Fred Baker
Cisco Fellow; Former IETF Chairman;
IETF IPv6 Operations Chair



Will Ivancic
NASA's Glenn Research Center: *Senior Research Engineer*; Hybrid Space-Based Internet and Aeronautical Internet Research: *Technical Director*



David Johnson
Rice University: *Associate Professor*;
Mobile IPv6: *Lead Author*; DSR: *Lead Author*



Sri Gundavelli
Cisco Systems: *Mobile IPv6 and IPv6 Network Mobility (NEMO) Technical Lead & Developer*



Joseph P. Macker
IETF MANET: *Working Group Co-Chair*; Staff Naval Research Laboratory: *Communications and Network Research Scientist*



Geoff Mulligan
Home Invensys: *CTO*; IETF IPv6 Over 802.15.4 (sensor networks): *Co-Chair*



David Green
CERDEC Site Manager: *SRI International*



Carl Williams
Senior Consultant



