IAB WIRELESS INTERNETWORKING WORKSHOP

February 29-March 2, 2000

Meeting Hosted by Nokia

Bob Hinden

INTRODUCTION

- Welcome to Nokia

- Goals of IAB Wireless Internetworking Workshop

- Introductions

- Review Agenda

GOALS & RESULTS

- Goals
  - Insure that the Internet Protocols are suitable for the wireless environment.
  - Look at the Wireless Application Protocol (WAP)
  - Education between the IP and Wireless communities

- IAB Results:
  - Recommendations to the IAB
  - Recommendations to the IESG
  - Recommendations for IETF action
  - Recommendations for IRTF research
  - Identification of non-IETF issues that need attention

- Meeting Report

DAILY SCHEDULE

- 8:30am   Room opens
  - Coffee, juice, muffins, etc. available)
- 9:00am   Meeting start
- 12:00pm Lunch Break
  - Food will be brought in
- 1:30pm   Meeting continued
- 3:30pm   Afternoon Break (15 min)
  - Coffee, snacks, etc.
- 5:30pm   Meeting adjourned

TUESDAY AGENDA

- Introduction / Meeting Chairs (15 min)

- Overview of Wireless IP Devices / Heikki Hammainen (45 min)

- Local Area Wireless Technologies
  - Overview of IEEE 802.11 Wireless LAN's &Issues Running IP over IEEE 802.11? / Juha Ala-Laurila (45 min)
  - Overview of Bluetooth wireless & Issues running IP over Bluetooth? / Pravin Bhagwat (75 min)

- Cellular Wireless
  - Overview of Cellular Data Systems & Approaches to more IP centric Cellular Data System / Jonne Soinien (60 min)
  - IP packet data service over IS-95 CDMA / Phil Karn (45 min)
  - Wireless Internet Networking / Chin-Lin I (60 min)
  - Mobile IP in Cellular Data Systems / Charlie Perkins (45 min)

WEDNESDAY AGENDA

- Wireless Application Protocol (WAP) (120 min)
    - Overview of WAP
    - Why WAP was needed / Why were the Internet Protocol insufficient?
    - What changes are needed in the Internet Protocols
        - Jerry Lahti & Alastair Angwin
- Other Related Wireless Applications
    - Near-space Wireless Applications / Mark Allman (30 min)
    - Air Traffic/Aviation Wireless / Chris Wargo (30 min)
- VoIP over Wireless / Christian Huitema (45 min)
- Security over Wireless
    - Security Issues in Wireless Networks and Mobile Computing / N. Asokan (30 min)
    - Security for Mobile IP in 3G Networks / Pat Calhoun (30 min)
    - Security and Privacy in Location Information / Randy Bush (5 min)

WEDNESDAY AGENDA(CONT.)

- Transport / QOS over Wireless
    - Does current Internet Transport work over Wireless? / Sally Floyd (30 min)
    - QOS for Wireless (Diff Serv, Int Serv, other?) / Lixia Zhang (30 min)
    - Realtime Traffic over Cellular Access Networks / Lars Westberg (30 min)
    - / Mark Handley (30 min)

THURSDAY AGENDA

- Do current WWW Protocols work over Wireless and Small Screen Devices? / Gabriel Montenegro (30 min)

- Addressing Requirements for Wireless Devices & IPv6 for Wireless / Bob Hinden (30 min)

- Compression & Bit Error Requirements for Wireless / Mikael Degemark (30 min)

- Application Support / Victor Bahl (45 min)

- Break Out Sessions to develop Recommendations & Actions
  - Internet
  - Transport
  - Applications

- Meeting Summary
  - Recommendations and actions
  - Layout of workshop report

ATTENDEES

- IAB/IESG
  - Geoff Huston   IAB
  - Randy Bush   IESG
  - Brian Carpenter   IAB Chair
  - John Klensin   IAB
  - Erik Nordmark   IESG
  - Fred Baker   IESG Chair
  - Allison Mankin   IESG
  - Scott Bradner   IESG
  - Keith Moore   IESG
  - Tony Hain   IAB

- Overhead
  - Bob Hinden   Organizer
  - Danny Mitzel   Minute taker

SPEAKERS

- Alastair Angwin
- Charlie Perkins
- Chih-Lin I
- Chris Wargo
- Christian Huitema
- Gabriel Montenegro
- Heikki Hammainen
- Jerry Lahti
- Jonne Soininen
- Juha Ala-Laurila
- Lars Westberg

- Lixia Zhang
- Mark Allman
- Mark Handley
- Mikael Degermark
- N. Asokan
- Pat Calhoun
- Phil Karn
- Pravin Bhagwat
- Sally Floyd
- Victor Bahl
- Van Jacobson

BREAK OUT TOPICS

- What can the IETF learn from Wireless organizations? How to approach the *walled garden* issue?

- Cost of staying with IPv4 for wireless systems (instead of moving to IPv6)

- Compare IPv6 and IPv4 Mobile IP solutions. Is IPv6 Mobile IP simple enough and has it solved operator problems?

- What do we need to do to make TCP work well with wireless?