

# IPv6 WORKING GROUP

July 2002  
Yokohama IETF

Bob Hinden / Nokia

Steve Deering / Cisco Systems

Margaret Wasserman / Wind River

Co-Chairs

# SESSIONS

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- IPng Working Group Sessions
    - Thursday, 0900-11:30 (Room 301/302)
    - Thursday, 1300-1500 (Room 301/302)
  - Special Japan IPv6 Session
    - Thursday, 11:45 - 12:45 (Room 301/302)
- ( Not official IPv6 w.g. Meeting )

# AGENDA (THURSDAY AM) 1

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- Introduction & Agenda Bashing (5 min)
- Priorities and Status -- Bob Hinden (30 min)
  - Presentation of current priorities and status
  - Discussion of WG priorities moving forward
- IPv6 MIBs Status and Open Issues -- Margaret Wasserman (10 min)
  - <draft-ietf-ipv6-rfc2096-update-00.txt>, <draft-ietf-ipv6-rfc2011-update-00.txt>
  - <draft-ietf-ipv6-rfc2012-update-00.txt>, <draft-ietf-ipv6-rfc2013-update-00.txt>
- IPv6 Node Requirements -- John Loughney (20 min)
  - <draft-ietf-ipv6-node-requirements-01.txt>
- DAD vs. DIID Discussion -- Chairs (20 min)
  - Including DAD-related changes, if any, required to:  
RFC3041, RFC2462, <draft-ietf-ipngwg-addr-arch-v3-08.txt>

# AGENDA (THURSDAY AM) 2

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- Addressing Architecture Open Issues -- Bob Hinden (10 min)  
<draft-ietf-ipngwg-addr-arch-v3-08.txt>
- Default Address Selection Open Issues -- Rich Draves (15 min)  
<draft-ietf-ipv6-default-addr-select-08.txt>
- DNS Discovery Status and Next Steps -- Chairs and Erik Nordmark (20 min)  
<draft-ietf-ipv6-dns-discovery-05.txt>

# AGENDA (THURSDAY PM) 1

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- Prefix Delegation Requirements -- Shin Miyakawa (15 min)  
<draft-miyakawa-ipv6-prefix-delegation-requirement-00.txt>
- Node Information Queries Status & IESG Feedback -- Chairs (10 min)  
<draft-ietf-ipngwg-icmp-name-lookups-09.txt>
- Node Information Queries for Reverse DNS Lookup -- Jun-ichiro itojun Hagino (10 min)  
<draft-itojun-ipv6-nodeinfo-revlookup-00.txt>
- Flow Label -- Jarno Rajahalme (10 min)  
<draft-ietf-ipv6-flow-label-02.txt>
- Scoped Address Architecture -- Tatuya Jinmei (10 min)  
<draft-ietf-ipngwg-scoping-arch-04.txt>
- IPv6 Anycast Architecture -- Jun-ichiro itojun Hagino (15 min)  
<draft-ietf-ipngwg-ipv6-anycast-analysis-01.txt>

# AGENDA (THURSDAY PM) 2

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- A Protocol for Anycast Address Resolving -- Shingo Ata (10 min)  
<draft-ata-ipv6-anycast-resolving-00.txt>
- Issues in IPv6 Deployment/Operation -- Jun-ichiro itojun Hagino or Tatuya Jinmei (10 min)  
<draft-itojun-jinmei-ipv6-issues-00.txt>
- Link Scoped IPv6 Multicast -- Jung-Soo Park (5 min)  
<draft-ietf-ipv6-link-scoped-mcast-01.txt>
- Use of /127 Prefix Length Between Routers Considered Harmful -- Chairs (5 min)  
<draft-savola-ipv6-127-prefixlen-04.txt>

# WORK COMPLETED

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- RFC's Published
  - (none)
- IESG Approved
  - IPv6 for Some Second and Third Generation Cellular Hosts (Informational)

# WORKING GROUP PRIORITIES AND STATUS

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- Chairs developed priorities for current and future work
- Priority Areas
  - Urgent for Deployment
  - Completing Current Work
  - Longer Term, But Important
  - Moving Proposed Standard Specifications to Draft Standard
  - Priorities for the IETF (Not in IPv6 w.g.)



# URGENT FOR DEPLOYMENT

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- DNS Discovery
  - Status: New draft available
- Prefix Delegation
  - Status: Initial requirements draft available
- IPv6 MIBs (combined IPv4/IPv6 versions)
  - Status: Four new MIB drafts available

# COMPLETING CURRENT WORK (1)

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- Default Address Selection
  - Status: In IESG for PS, new draft available with updates based on IESG and w.g. feedback
- Addressing Architecture
  - Status: In IESG for DS, new draft available with updates based on IESG feedback.
- Aggregatable Unicast Addresses
  - Status: Waiting for resolution on Addr Arch issues, then updates required.
- Basic Sockets Extensions
  - Status: In IESG for Informational, update may be required to resolve normative reference

# COMPLETING CURRENT WORK (2)

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- Advanced Sockets API
  - Status: In IESG for Informational
- Update to ICMPv6
  - Status: In IESG for PS
- Router Preferences & Load Sharing
  - Status: WG Last Call completed, submitted to IESG for PS
- Requirements for Cellular Hosts
  - Status: Accepted by IESG for Informational
- Node Information Queries
  - Status: In IESG for PS

# COMPLETING CURRENT WORK (3)

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- DAD (or DIID?) Fixes to Autoconf, Privacy Addresses and/or Addr Arch
  - Status: Discussion planned for Yokohama, may require changes to several specifications
- IPv6 Node Requirements
  - Status: Initial draft available

# LONGER TERM, BUT IMPORTANT

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- Flow Label
  - Status: New draft available, on Yokohama agenda
- Scoped Addressing Architecture
  - Status: New draft available, on Yokohama agenda
- IPv6 over 3GPP PDP Contexts (standards track)
  - Status: Do we need this?
- IPv6 over PPP update
  - Status: Is an update required?
- Point-to-point related updates to ND/Autoconf/etc.
  - Status: Are any updates required?

# MOVING PS SPECIFICATIONS TO DS (1)

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- RFC1886: DNS Extensions for IPv6
  - Status: Requires updates for .INT -> .ARPA
- RFC2464: IPv6 over Ethernet
  - Status: Ready to advance, working on implementation checklists
- RFC2467: IPv6 over FDDI
  - Status: Ready to advance, working on implementation checklists
- RFC2473: Generic Packet Tunneling in IPv6 Specification
  - Status: Waiting for response from authors

# MOVING PS SPECIFICATIONS TO DS (2)

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- RFC2710: MLD for IPv6
  - Status: Keep at PS to be updated by MLDv2 from MAGMA WG
- RFC2526: Reserved IPv6 Subnet Anycast Addr
  - Status: Ready to advance, not clear how/if to document implementation

# PRIORITIES FOR THE IETF (NOT IN IPV6 WG)

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- Secure, robust plug-and-play
- Multi-link Subnets
- Anycast architecture
- Routing protocol updates to IPv6 routing protocols (in OSPF, BGP WGs)



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