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IPv6MIB Working Group Meeting

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Agenda - Session 1

- Agenda Bashing
- Introduction
- San Jose BOF Review
- Working Group Charter Review
- General Overview and Technical Highlights
- Work Done to Date
- Open Discussion
- Administravia

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Agenda - Session 2

- Administravia
- Framework Overview
- SNMPv1/SNMPv2: Impact and Issues
- Existing MIBs: Impact and Issues
- IPv6 MIBs: Proposed Organization
- Open Discussion
- Next Steps
- Conclusion

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Introduction

- Network Management Directorate Consultant
  - Fred Baker
    Cisco Systems, Inc.
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- Editor
  - David Arneson
    Cabletron Systems, Inc.
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- Chair
  - Manu Kaycee
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San Jose BOF Review

- IPv6 Managed Subsystems
- Management Support Entities
- Relationships: IPv4, IPv6, and “Applications”
- Affected MIBs
- Proposed Organization
- Administrative Issues

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Working Group Charter Review

- Three Broad Categories
- Category 1: Management Protocol Support
- Category 2: Existing MIBs
- Category 3: IPv6 MIBs
- Framework and MIB Organization is embodied as part of Categories 2 and 3
- Identify Specific Areas of Work, and Work Items, within abovementioned Categories
- Liaison with pertinent Working Groups (e.g. IPng, ngtrans)

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Working Group Charter Review: Management Protocol Support

- Identify extensions, additions, changes to existing Standards-based RFCs and Standards-track Drafts
- As examples: Textual Conventions, Transport Mappings, “Addition to SMI:-(”
- Liaison with the SNMPv2 WG and/or Network Management Area Director

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Working Group Charter Review: Existing MIBs

- Identify existing MIBs that will be affected
- Liaison with the appropriate Working Groups and/or Area Directors

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Working Group Charter Review: IPv6 MIBs

- Identify a complete set of new and additional MIB Modules
- Identify their respective Organization, but not individual managed objects

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Working Group Charter Review: Goals and Milestones

- June 1995
  - Submit to the SNMPv2 WG, if applicable, a complete list of changes to existing Drafts
  - Submit an Internet Draft listing a set of existing MIBs that require modifications in order to support IPv6
  - Submit an Internet Draft of an IPv6 MIB Framework and Overview document
- September 1995
  - Submit final version of IPv6 Framework and Overview document as an Informational RFC
- October 1995
  - Submit revised charter and request extension

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Work Done to Date

- Pertinent Work done to date by Community!?!

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Open Discussion

- MIB-II Evolution
- Split Objects (e.g. UDP/IPv4 and/or UDP/IPv6)
- Changes to SMI for IPv6 Address

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Administravia

- Mailing List
  - ip6mib(-request)@research.ftp.com
- List Archive
  - research.ftp.com:pub/ip6mib/archive
- Next Working Group Session
  - Thursday, April 6, 1995: 0900-1130

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Administravia (continued)

- Agenda Updates...
- Two reference documents: IPng Protocol and Addressing Architecture Specifications
- Propose to let current set of SNMPv2 documents “evolve”
- Decouple IPv6 Address and Transport Mappings specification by developing separate RFC
- Where done?

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Framework Overview

- Environment
  - IPv4 Manager/Agent and IPv4/IPV6 Managed Device(s)
  - IPv6 Manager/Agent and IPv4/IPv6 Managed Device(s)
- No Proposed Changes to SMI...use Textual Convention for IPv6 Addresses
- No additional SNMP protocol support (“extensions”) needed to manage IPv6 via IPv4 Managers

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Open Discussion

- Current charter does not specify MIB development
- Host area for development of “base” MIBs
  - have contacted some Working Group chairs

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Next Steps

- Charter Extensions
- Followup discussion between new NM and Internet Area Directors and chair of this WG
  - some groups have moved
  - some work is moving

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Conclusion

Thank You