An Overview of the IETF Network Management Standards

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Changes since Prague

Things we did since last time:

- Introduced new Appendix on "High Level Classification of Management Protocols and Data Models" as a dispatcher
- Reduced text for the Security Requirements on SNMP and referenced to RFC 3411
- Reduced subsection on VACM
- Merged subsection on RADIUS Authentication and Authorization into the section SNMP Transport Security Model'
- Section on Dynamic Host Configuration Protocol (DHCP) revised by Ralph Droms
- Subsections on DHCP and Autoconf assembled in section "IP Address Management"
- Removed subsection on "Extensible Provision Protocol (EPP)"
- Deleted detailed positive comments
- Resolved some of the I-D references and added RFC references
- Removed text on expired drafts
- Resolved bugs, nits and open issues

Next Steps

- There was a discussion on this draft in the IP Suite WG session in the NIST SGIP meeting on July 15, 2011.
  - SGIP IPS WG is ineterested in this draft and will review it before publication
  - Participants requested that we also include information on following topics:
    - Internet Domain Name System (already covered in RFC 6272)
    - PANA (as complementary to RADIUS and DIAMETER)

Next steps:

- Add an appendix for the high-level overview of IETF MIB modules
- Clean up I-D references
- Add PANA?

What's next:

- We think the document is already stable and can go to OPSAWG LC after cleaning up

Back-up

Draft Audience & Focus

- Draft audience:
  - People interested in getting an overview of current set of IETF management technologies
  - Non-IETF bodies interested in using IETF management protocols
- Common question to answer:
  - Which IETF technologies and data models can be used to build a management application, e.g. for network monitoring, fault mgmt.?
- In-focus:
  - IETF Network Management technologies and standards
    - outline technology options and building blocks
  - Data models addressing the management application view
    - describe and map to network management tasks like fault, configuration, accounting, performance, and security management
- Out-of-focus:
  - Data models not in direct focus of network management tasks
    - technology specific MIBs, e.g. TCP MIB, IPv6 MIB, etc.
    - MIB modules related to transmission , e.g. ISDN MIB, ATM MIB, etc.

- Many thanks to the contributors:
  - IPFIX, PSAMP (Juergen Quittek, Benoit Claise)
  - YANG (Juergen Schönwälder)
  - RADIUS and DIAMETER (Jouni Korhonen)
  - DHCP (Ralph Droms)
  - EMAN (Benoit Claise)
- and initial reviewers in OPSAWG ML

We need more reviewers.