An Overview of the IETF Network Management Standards

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IETF #80, Prague
O&M Area Working Group WG

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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.

Changes since Beijing & Next Steps

Things we did so far:

- Rearranged the document structure to get it more flat
- Reduced detailed text on pro&contra on management technologies
- Explained the structure based on the management application view
- Extended sections for NETCONF, NETMOD, IPv6 Operations
- Added contributions for RADIUS/DIAMETER, IPFIX, YANG, and EMAN.
- Added text on IPFIX IEs, SYSLOG SDEs and YANG modules to section 4
- Text on SNMP security reduced
- Added security discussion to all relevant sections
- Added terminology, contributors and acknowledgements sections
- Incorporated comments from Juergen Schoenwaelder

Open issues and next steps:

- Check for missing standard MIB modules per management task
- Do we need the sections on Autoconf, and EPP?
- *Provide a classification of technology options to ease selection*
- *Raise discussion on missing parts and text*
- *Motivate the WG maillist to review and comment*
- *Get it stable and provide for review in OPSAWG and SGIP IPS WG*

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

We need more reviewers.