NAT-MIB

• RFC 4008
• Generic NAT MIB
• IPv4 and IPv6 support (NAT[46][46])
• Required by draft-ietf-behave-lsn-requirements
• Missing many features
• Missing features are currently implemented in various proprietary MIBs
  – This suggests a need for standardization
Missing Features
(incomplete)

• DS-Lite
  – Sharing address pools between interfaces

• CGN
  – Per-subscriber state table indexing
  – Per-subscriber statistics
  – Per-pool statistics
  – Notifications for IP/port exhaustion, quota exceeded, etc.
  – Configurable limits and/or throttles for allocations
  – Low and a high thresholds in order to add more IP addresses or reclaim some if they are unused

• NAT64
  – Expose pref64 in MIB
  – Various semantics changes required

• PCP
  – Do we need anything?

• Various
  – Update to RFC 4787 terminology
  – Support protocols other than just TCP and UDP
  – Clarify existing traps
  – Add examples of DS-Lite, CGN, and NAT64 configurations
Proposals

• Add milestone to this working group’s charter: “Produce a revision of RFC 4008 taking into account recent developments such as DS-Lite, CGN, and NAT64.”

• Adopt draft-perreault-opsawg-natmib-bis as WG document for fulfilling the above.
BEHAVE? OPSAWG? V[46]OPS?

• If this WG is not the right place for this work, where should it go instead?