Data plane round-table Feedback

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Points of discussions

• OAM
• Fragmentation
• Need of Critical Bit.
• Security extensions.
• Single TLV option length.
OAM

• Active OAM.
  • It has it’s own protocol.
  • Can use the same entropy on the tunnel outer header.
  • Question the need of O Bit in the tunnel header.
  • It fails if transit node will collect entropy from the inner header.

• Hybrid OAM.
  • In band telemetry, performance and OAM TLV(s) added to the data packet.
  • Doesn’t have the entropy issue of active OAM.
Fragmentation

• Don’t Fragment bit to be set for ipv4, and no fragmentation for v6.
  • ICMP Error and path mtu handling.

• Follow overlay services like PWE3, and L2/L3 VPN recommendation to guarantee larger MTU for the tunnel overhead.
Need of critical bit

- Will there be ever any non critical option that will be sent between the NVE(s)?
  - If so, why was that option sent if it is not needed by the NVE destination?
Security extensions.

• Should we add a recommendation, that at least the base header should be secured?
  • As well if we need to secure the options TLV(s), need to specify the subset of TLV(s) that are part of the hash calculation.
Single TLV option length

• Discussion on extending the size of single option TLV to 256 from 128 bytes.