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.